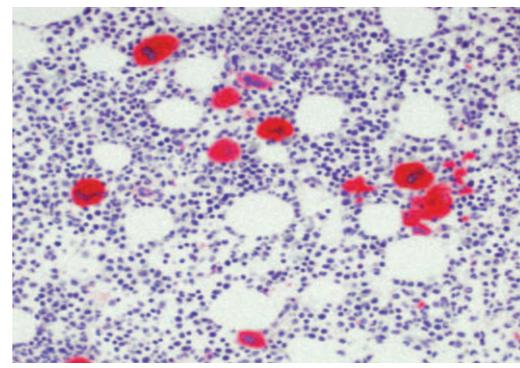
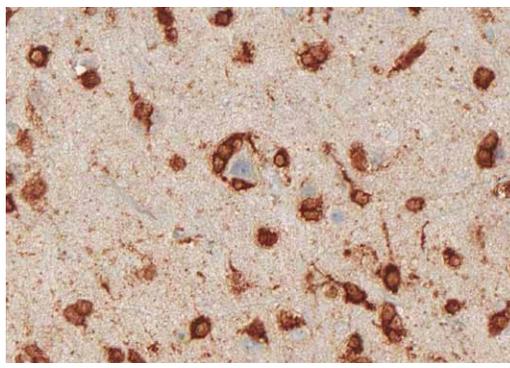
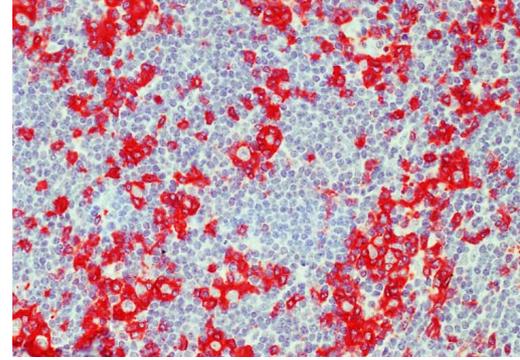


Outstanding
Markers

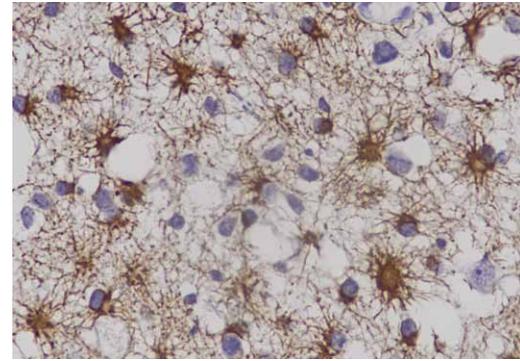
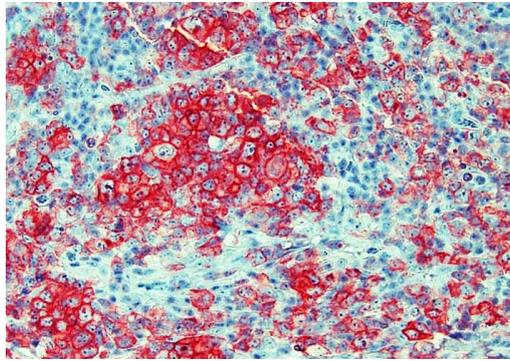
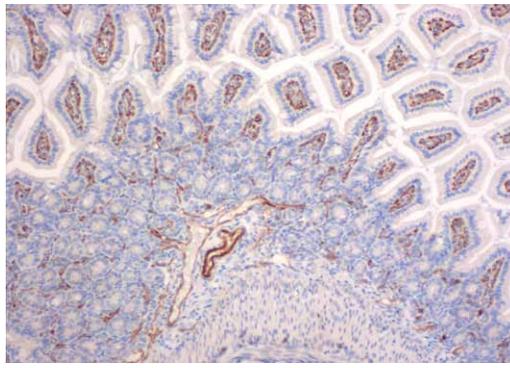


Excellent
FFPE
Staining



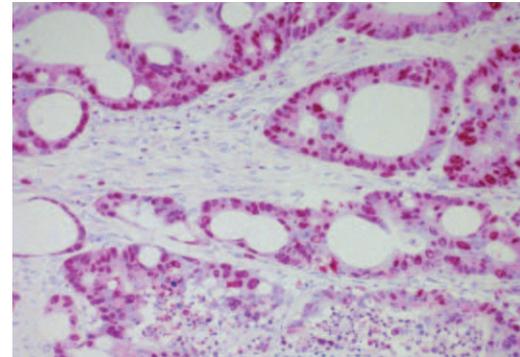
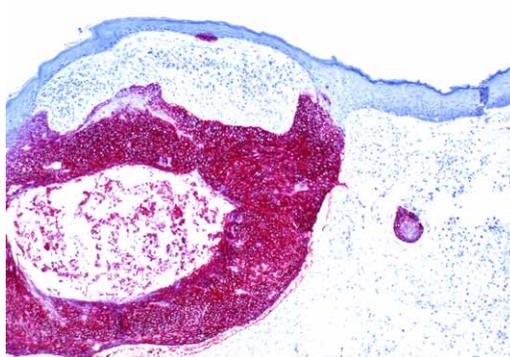
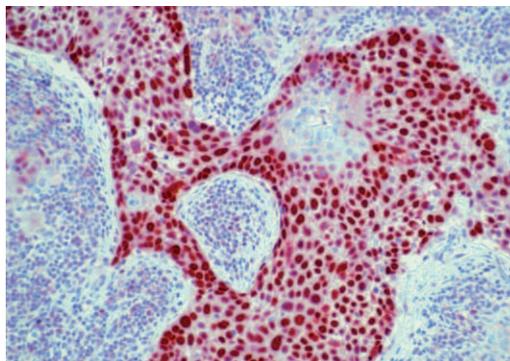
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Superior
Staining
Quality

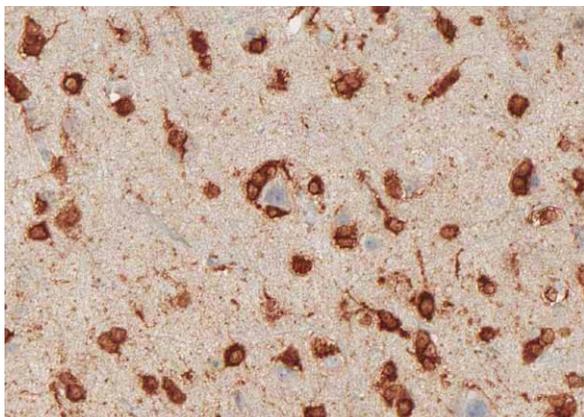


High Titer
Best Price

OPTISTAIN

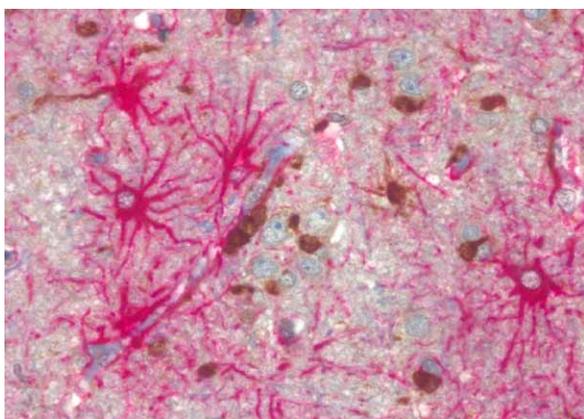


Anti-IDH1^{R132H} (clone H09) - a brain tumor marker for astrocytoma and oligodendroglioma



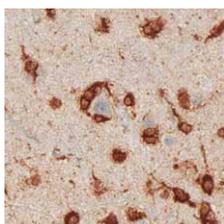
Cortex infiltrated by oligodendroglioma with selective labeling of tumor cells by antibody clone H09.

Anti-IDH1 R132H (clone H09) reacts selectively with astrocytoma and oligodendroglioma cells and allows discrimination from non-neoplastic astrocytes and from reactive gliosis. It is also suitable for the discrimination of various brain tumors, such as anaplastic astrocytoma from primary glioblastoma or diffuse astrocytoma grade II from pilocytic astrocytoma or ependimoma.



GFAP/IDH1^{R132H} doublestaining of an oligodendroglioma tumor margin demonstrated by a selective labeling of the tumor cells with anti IDH1 R132H (clone H09) in brown and the non-neoplastic astrocytes labeled with anti-GFAP (e.g. clone IF3) in red. (Images courtesy of Prof. A. von Deimling, Department of Neuropathology, University of Heidelberg).

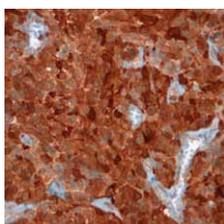
The antibody to GFAP (clone IF3) selectively labels non-neoplastic and neoplastic astrocytes and thus is useful in distinguishing primary gliomas from metastatic lesions in the brain.



anti-human IDH1 R132H - specific diagnosis of brain tumors

Specificity IDH1 R132H
 Clone **H09**
 Host / Isotype Mouse / IgG2A
 Application IHC-P, WB
 Dilution IHC 1:20

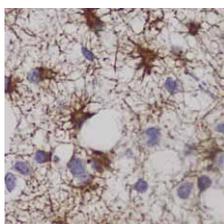
Product Code	Quantity
DIA-H09**	0,5 ml
DIA-H09-L**	8 ml-RTU



anti-human IDH1 - control that detects wildtype IDH1

Specificity IDH1
 Clone **W09**
 Host / Isotype Rat / IgG2A
 Application IHC-P, WB
 Dilution IHC 1:20

Product Code	Quantity
DIA-W09**	0,5 ml



anti-human GFAP - astrocyte marker

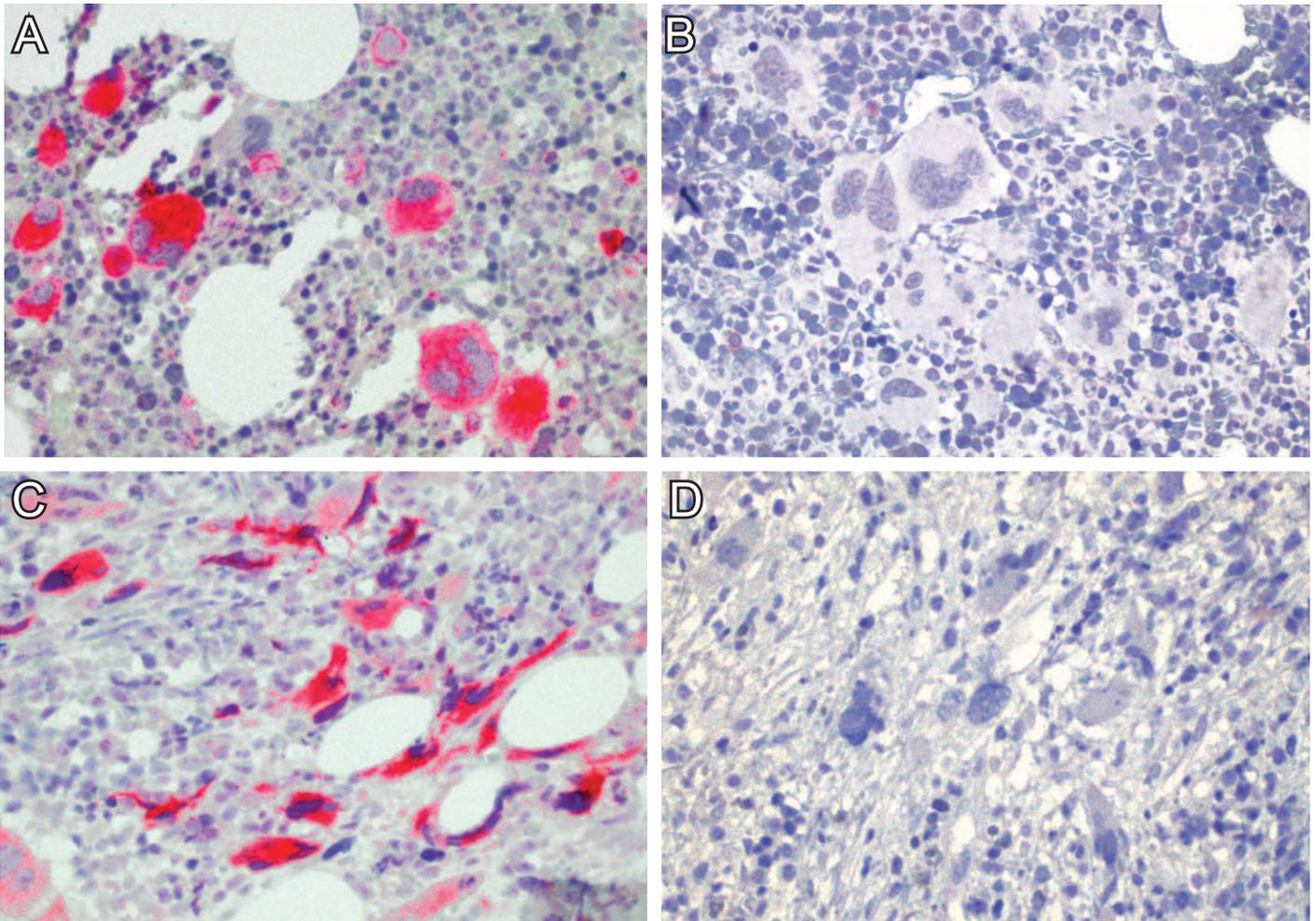
Specificity GFAP
 Clone **IF3**
 Host / Isotype Mouse / IgG1
 Application IHC-P, WB
 Dilution IHC 1:160-1:320

Product Code	Quantity
DIA-700-P05	0,5 ml

**Manufactured and distributed under exclusive licence from the German Cancer Research Center (DKFZ, Heidelberg)

Anti-mutated Calreticulin (clone CAL2) - monoclonal antibody for detection of all types of CALR mutations in MPNs

All Calreticulin mutations detected in Myeloproliferative Neoplasms so far result in a novel C-terminus. The CAL2 antibody is directed against a common epitope in this region and therefore detects all CALR mutations. CALR mutations are detectable in 67% of ET and 88% of PMF cases with non-mutated JAK2 or MPL. CAL2 allows reliable distinction of CALR mutated Essential Thrombocythaemia and Primary Myelofibrosis from Polycythaemia Vera and reactive bone marrow alterations.



Immunohistochemical Staining of different cases of Primary Myelofibrosis (PMF). Selective staining of mutated CALR protein in megakaryocytes of two PMF cases in prefibrotic phase (A) and in fibrotic phase (C), respectively. CALR mutation was confirmed by Sanger sequencing. CAL2 does not stain cases with a negative CALR mutation status (confirmed by Sanger sequencing). PMF in prefibrotic phase (B), PMF in fibrotic phase (D).

CAL2 allows reliable distinction of CALR mutated ET and PMF from PV and reactive bone marrow alterations

Specificity	mutated CALRETICULIN
Clone	CAL2
Host / Isotype	Mouse / IgG2a
Application	IHC-P, WB
Dilution IHC-FFPE	1:20-1:40

Product code	Quantity
DIA-CAL-100	250 µl
DIA-CAL-250	100 µl

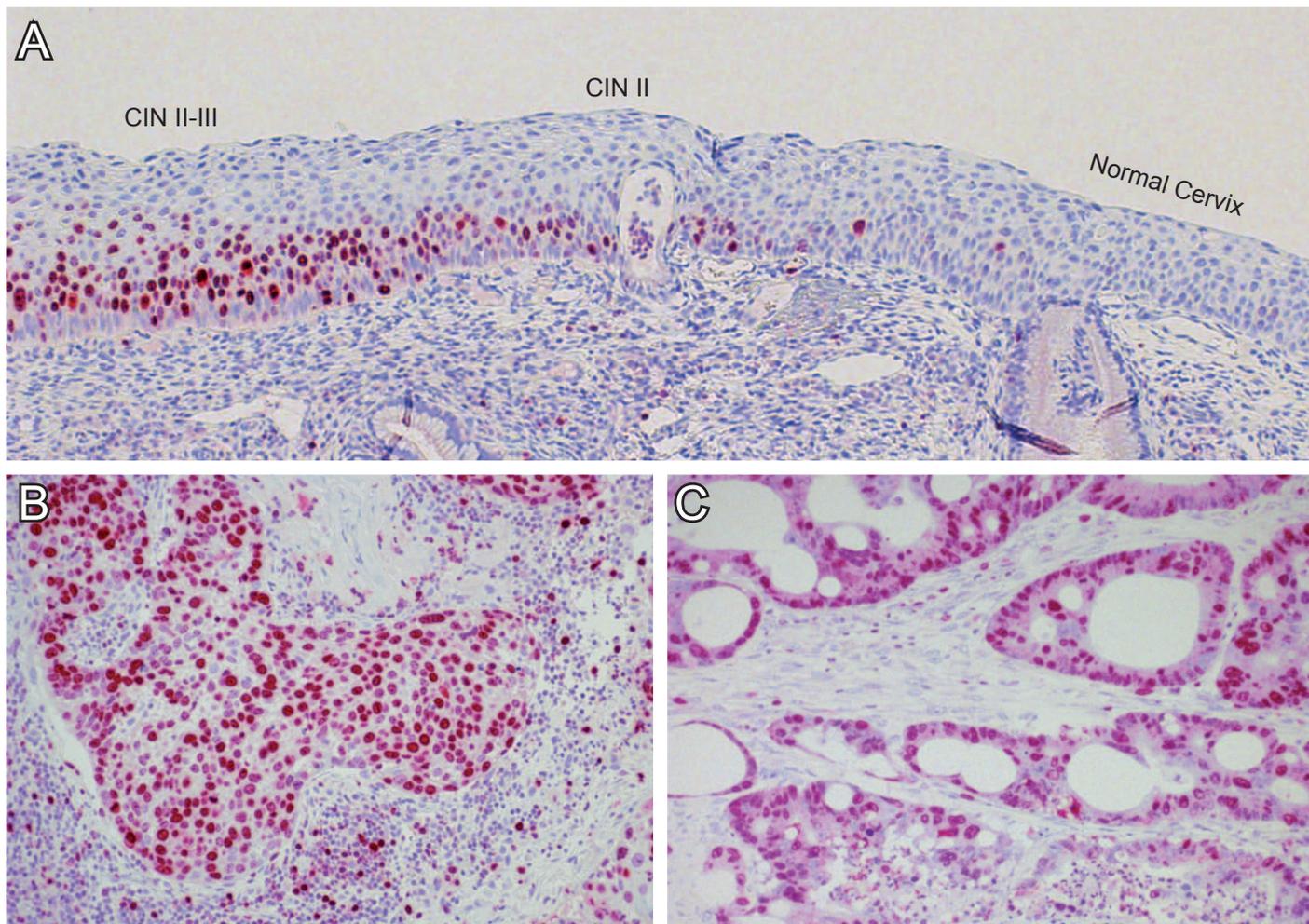
References:

Stein H. et al. A new monoclonal antibody (CAL2) detects CALRETICULIN mutations in formalin-fixed and paraffin embedded bone marrow biopsies. *Leukemia*, 2015, *Leukemia accepted article preview* 23 July 2015; doi: 10.1038/leu.2015.192.

*Prices incl. free delivery inside Germany, excl. VAT

Anti-Ki-67 (clone Ki-67P) - the reference marker for cellular tumor proliferation

Antibodies directed against the Ki-67 antigen identify actively dividing cells at all stages of the cell cycle (late G1, S, M and G2 phases), but do not recognize cells in G0 phase. In diagnostic histopathology, Ki-67 has been used as a marker for cell proliferation of solid tumors and hematological malignancies. A correlation between the histopathological grade and the Ki-67 index has been demonstrated for many neoplasms.



Different Ki-67 immunostainings with clone Ki-67P. (A) Uterine cervix. The normal cervix epithelium is Ki-67 negative in contrast to the areas with a CIN II and CIN II-III. (B) Squamous cell carcinoma of the neck. Nearly all of the tumor cells are in proliferation, showing that the carcinoma is rapidly dividing. (C) Colon carcinoma. Most of the tumor cells are in proliferation, indicating a fast growing carcinoma.

Ki-67 - Reference marker for assessing cellular tumor proliferation.

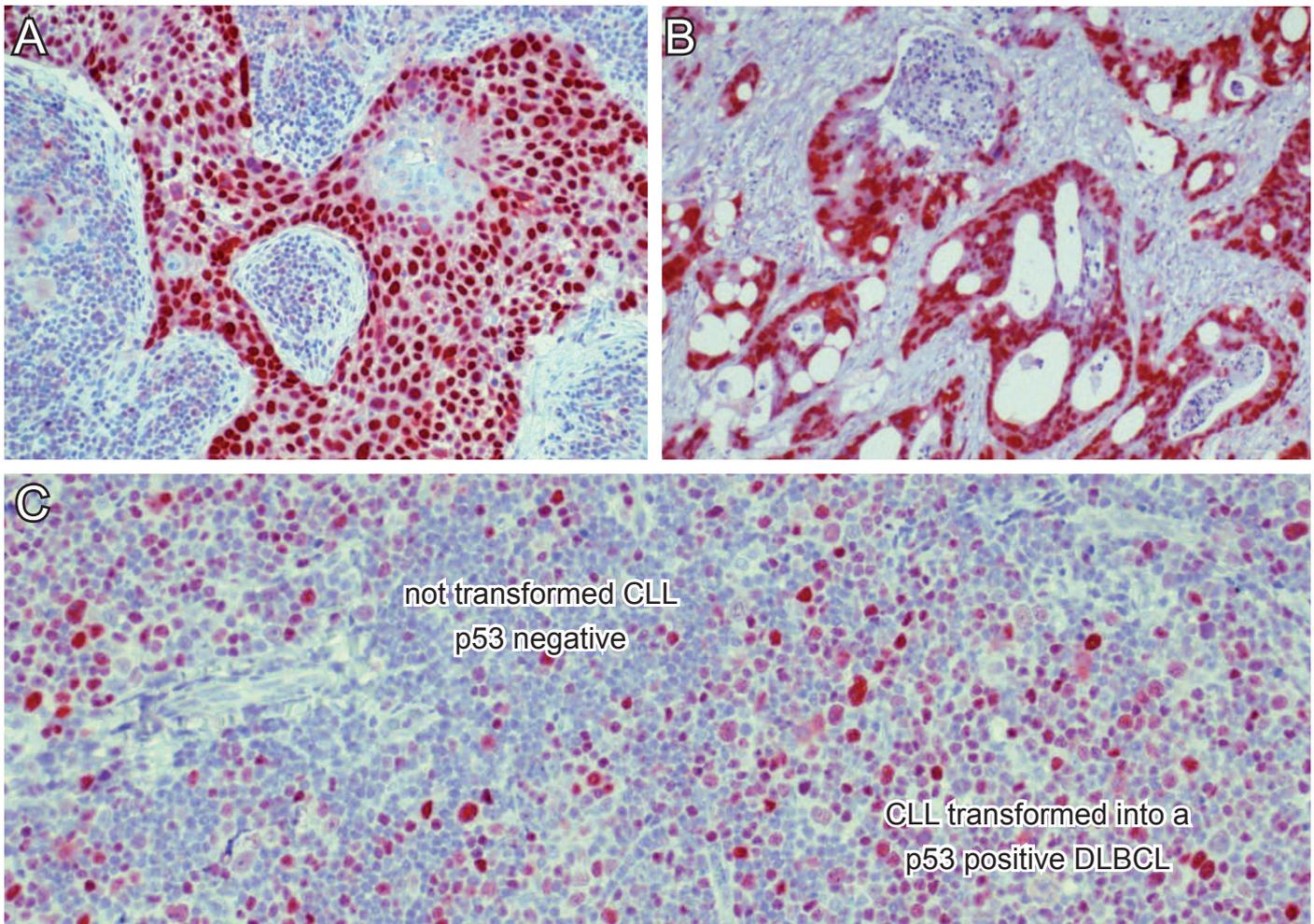
Specificity	Human Ki-67
Clone	Ki-67P
Host / Isotype	Mouse / IgG1
Application	IHC-P
Dilution IHC-P	1:100-1:200

Product Code	Quantity
DIA-670-P05	0,5 ml
DIA-670-P1	1,0 ml

*Prices incl. free delivery inside Germany, excl. VAT

Anti-p53 (clone CC53) - marker for the most common genetic abnormalities in malignant transformation of human tumors

Over 50% of human cancers contain mutations in the p53 tumor suppressor gene. Many mutations of the p53 gene have been found to be associated with malignant transformation in a wide variety of human tumors.



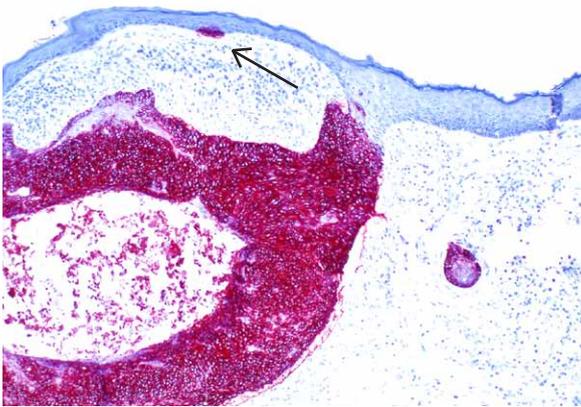
Different p53 immunostainings with clone CC53. (A) Squamous cell carcinoma of the neck. Nearly all tumor cells are strongly positive in their nuclei. This p53 upregulation points to a loss of its tumor suppressor function which permits the survival of cells with oncogenic genetic alterations. (B) Colon carcinoma. Nearly all tumor cells are strongly p53 positive in their nuclei. This p53 upregulation points to a loss of its tumor suppressor function which permits the survival of cells with oncogenic genetic alterations. (C) Chronic lymphocytic leukemia (CLL) transformed into a diffuse large B-cell lymphoma (DLBCL) = Richter syndrome. The non-transformed CLL area is p53 negative whereas most of the transformed DLBCL cells are strongly p53 positive. This p53 upregulation suggests that the transformation is associated with a loss of the TP53 tumor suppressor function which permits the survival of cells with oncogenic genetic alterations.

p53 - Reference marker tumor malignancy

Specificity	Human p53
Clone	CC53
Host / Isotype	Mouse / IgG1
Application	IHC-P
Dilution IHC-P	1:100-1:200

Product Code	Quantity
DIA-530-P05	0,5 ml
DIA-530-P1	1,0 ml

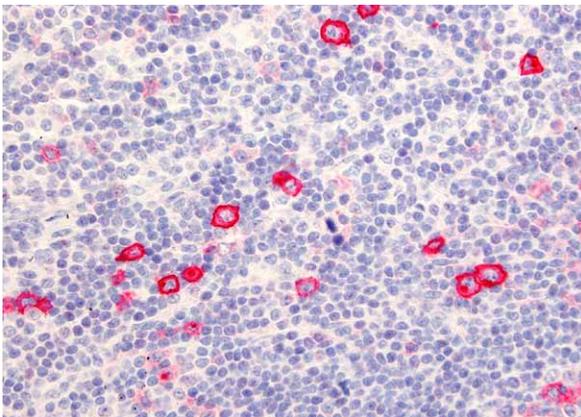
Anti-EpCAM (clone Ber-EP4) - marker for epithelial tumor cells



Immunohistochemistry of human EpCAM (CD326) in formalin-fixed paraffin-embedded tissue sections. Basal cell carcinoma (BCC) immunostained with antibody clone Ber-EP4. Arrow: BCC in situ.

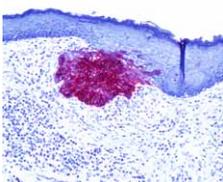
Anti-EpCAM (clone Ber-EP4) is highly suitable for the discrimination between basal cell carcinomas and squamous cell carcinomas of the epidermis. Moreover, the antibody is of great help in identifying remnants of basal cell carcinomas at the margin of biopsies and it is also of value for the distinction between mesotheliomas and adenocarcinomas.

Anti-CD30 (clone Ber-H2) - marker for lymphoma tumor cells



Classical reaction of CD30-specific antibody clone Ber-H2 with Hodgkin's lymphoma.

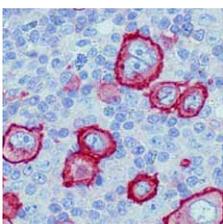
Anti-CD30 antibody is suitable for confirming the diagnosis of classical Hodgkin's lymphoma (CHL) and essential for the diagnosis of anaplastic large cell lymphomas (ALCL).



anti-human EpCAM / CD326 - epithelial tumor marker

Specificity Human EpCAM / CD326
 Clone **Ber-EP4**
 Host / Isotype Mouse / IgG1
 Application IHC-P, WB
 Dilution IHC-P 1:80-1:160

Product Code	Quantity
DIA-326-P05	0,5 ml



anti-human CD30 / Ki-1 - lymphoma marker

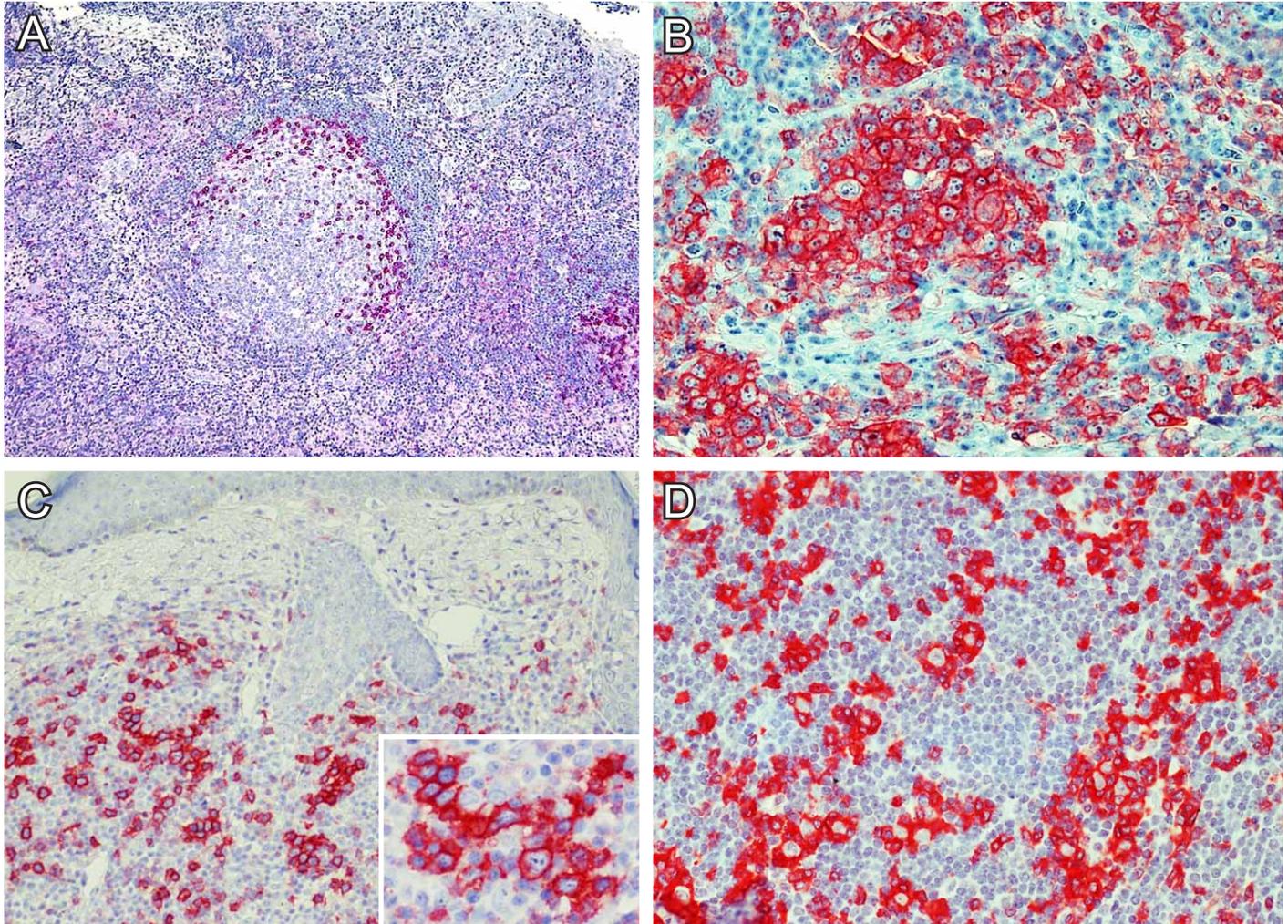
Specificity Human CD30 / Ki-1
 Clone **Ber-H2**
 Host / Isotype Mouse / IgG1
 Application IHC-P, WB
 Dilution IHC-P 1:160

Product Code	Quantity
DIA-300-P05	0,5 ml

*Prices incl. free delivery inside Germany, excl. VAT

Anti-PD-1 (clone NAT105) - a marker for follicular helper T cells (T_{FH}) and T-cell lymphomas related to T_{FH}-cells

PD-1 (Programmed Cell-Death 1) plays a key role in autoimmune diseases and in the mediation of tumor immunity. Antibodies directed against PD-1 are suitable for immunohistological detection of follicular helper T-cells (TFH), tumor-infiltrating T-cells (TILs) whose anti-tumor activity is inhibited by PD-1, lymphomas derived from TFH cells including angioimmunoblastic T-cell lymphoma, primary cutaneous CD4-positive small/medium T-cell lymphoma and the follicular variant of peripheral T-cell lymphoma NOS.



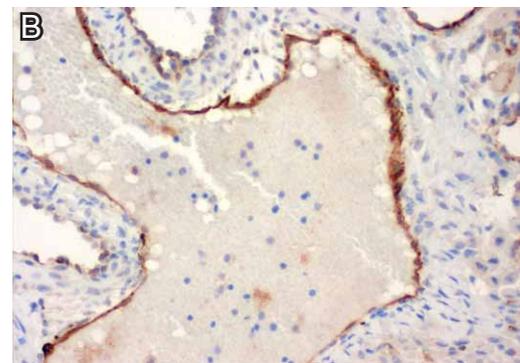
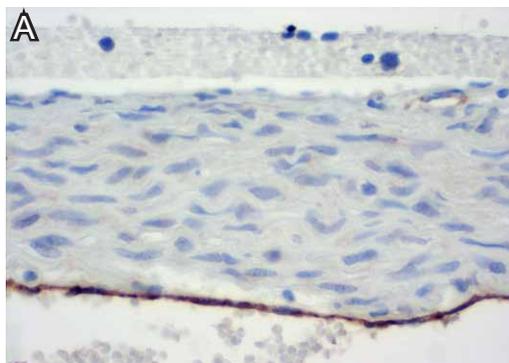
Different immunostainings at a dilution of 1:100 with anti-PD-1 (clone NAT105). **(A) Lymph node** - note the strong labeling of the follicular T-cells within the light zone of the germinal center. **(B) Angioimmunoblastic T-cell lymphoma** - the neoplastic cells are selectively labeled. **(C) Primary cutaneous CD4-positive small/medium T-cell lymphoma** - the insert shows labeled cells at a higher magnification. **(D) Lymphocyte predominant Hodgkin lymphoma** - the non-neoplastic T-cells expressing PD-1 form rosettes around the neoplastic LP cells.

A marker for diagnosis of a variety of T-cell derived lymphomas

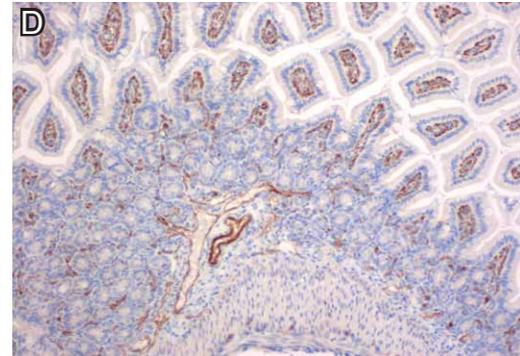
Specificity	Human PD-1
Clone	NAT105
Host / Isotype	Mouse / IgG1
Application	IHC-P, IHC-F, WB, FC, IP, IF
Dilution IHC-P	1:100-1:200

Product code	Quantity
DIA-PD1-P01	100 µl

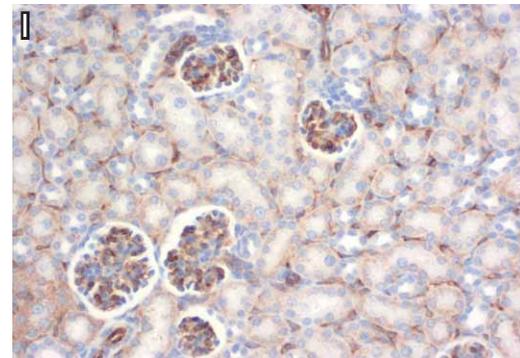
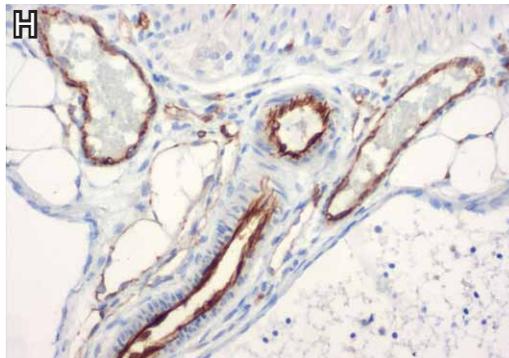
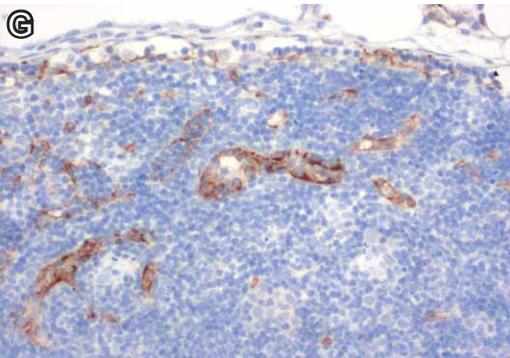
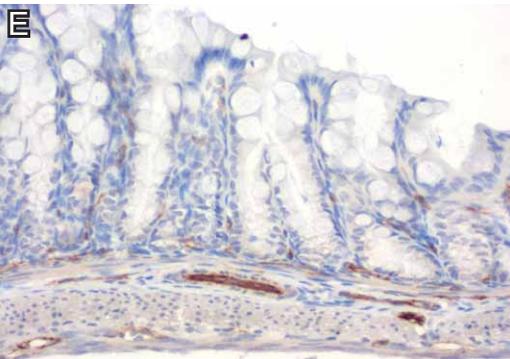
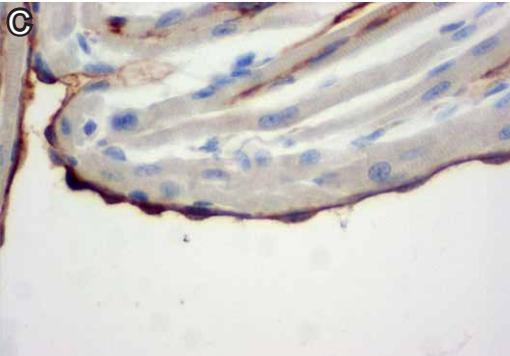
Preclinical Research



Rat anti-
Mouse CD31
for FFPE sections



Endothelial Cell Marker for Angiogenesis



Specific staining of mouse endothelial cells with the rat anti-murine CD31 antibody (clone SZ31) in different tissues. A - Aorta, B - Aortic origin, C - Endocardium, D - Small intestine, E - Colon, F - Brain, G - Lymph nodes, H - Mesenterial vessels, I - Kidney (Pictures courtesy of Prof. Dr. Robert Klopffleisch, Institute of Pathology, Department of Veterinary Pathology, Berlin, Germany).

Rat anti-mouse CD31 - marker for endothelial cells in FFPE sections

The rat anti-CD31 (clone SZ31) is the first antibody which allows detection of the endothelial cell marker CD31 in standard formalin-fixed paraffin-embedded tissue sections (FFPE) of mice.

Specificity	Mouse CD31 (PECAM-1)
Clone	SZ31
Host / Isotype	Rat / IgG2a
Application	IHC-P, IHC-F, WB
Dilution IHC	1:20

Product Code	Quantity
DIA-310	0,5 ml

*Prices incl. free delivery inside Germany, excl. VAT

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