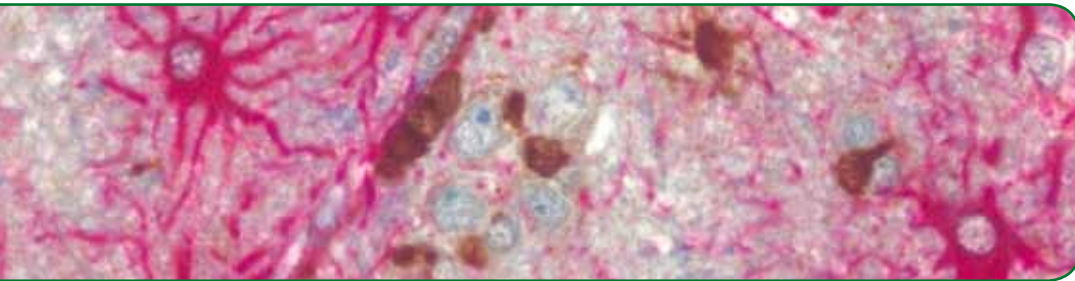


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Control
Antibody
available

Catalog Number DIA H09
Size 100µg
Specificity human IDH1^{R132H} Mutation
(astrocytoma & oligodendroglial tumor cells)
Class Monoclonal
Clone H09
Host / Isotype Mouse / IgG2a
Form Lyophilized powder
highly purified by anti-mouse
IgG affinity chromatography
Application Immunohistochemistry
formalin-fixed paraffin (FFPE)
Western Blotting

Catalog Number DIA H09 W (100µg)
Specificity human IDH1(wild-type)
Host / Isotype monoclonal Rat / IgG2a
Application IHC-P (FFPE), Western Blotting



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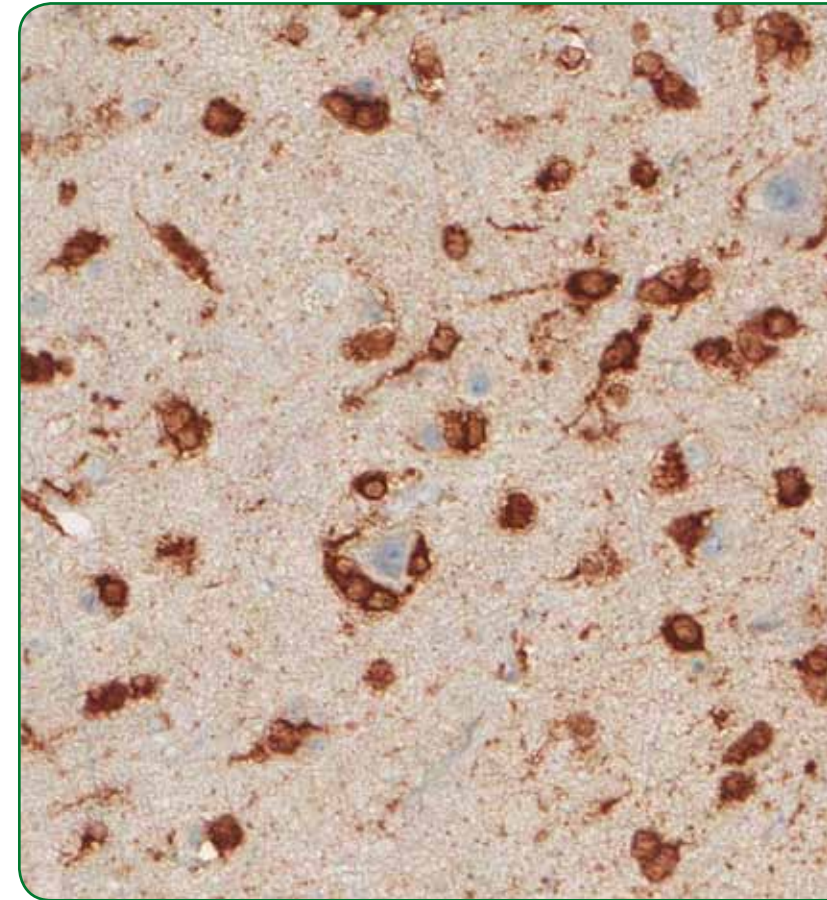
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Anti-human IDH1^{R132H} Astrocytoma & Oligodendroglioma Tumor Cell Marker

Clone H09 is the first commercially available
antibody that specifically stains single cells
carrying the IDH1^{R132H} point mutation.

Works in FFPE-tissues!
Free Sample
available

Clone H09 specifically detects the IDH1^{R132H} point mutation which is a marker for Astrocytoma & Oligodendroglioma Brain Tumor Cells

Heterozygous point mutations of isocitrate dehydrogenase (IDH) 1 codon 132 occur in approximately 70% of astrocytomas and oligodendroglial tumors. The high frequency and distribution of the mutation among specific brain tumor entities allow the highly sensitive and specific discrimination of various tumors, such as anaplastic astrocytoma from primary glioblastoma or diffuse astrocytoma WHO grade II from pilocytic astrocytoma or ependymoma. Noteworthy is the discrimination of the infiltrating edge of tumors with IDH1 mutation from reactive gliosis. Clone H09 is highly useful for brain tumor classification and the detection of single infiltrating tumor cells.

Immunohistochemistry of human IDH1^{R132H} in FFPE tissue sections

Pictures courtesy of Prof. Dr. A. von Deimling, Department of Neuropathology, University of Heidelberg / Clinical Cooperation Unit Neuropathology, German Cancer Research Center (DKFZ), Heidelberg / References:

1. Capper et al. (2009) Characterization of R132H mutation-specific IDH1 antibody in brain tumors. Brain Pathol. (Epub ahead of print)
2. Capper et al. (2009) Monoclonal antibody specific for IDH1^{R132H} mutation. Acta Neuropathol. 118(5): 599-601

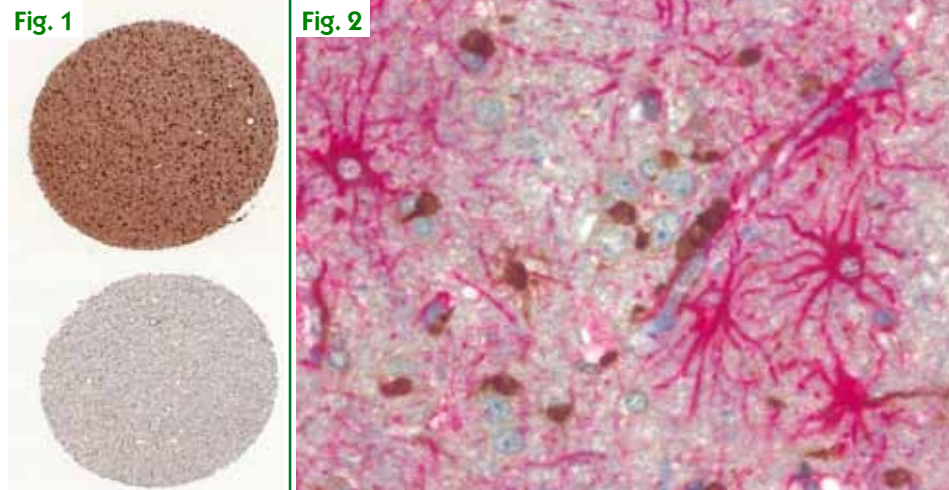


Figure 1: Strong reaction of antibody clone H09 with IDH1^{R132H} mutated diffuse astrocytoma (top) but not with wild type tumor (bottom). **Figure 2:** Double staining of GFAP (glial fibrillary acidic protein, red) and clone H09 (brown) of oligodendroglioma infiltration zone demonstrating specific labelling of tumor cells but not of GFAP positive reactive astrocytes.

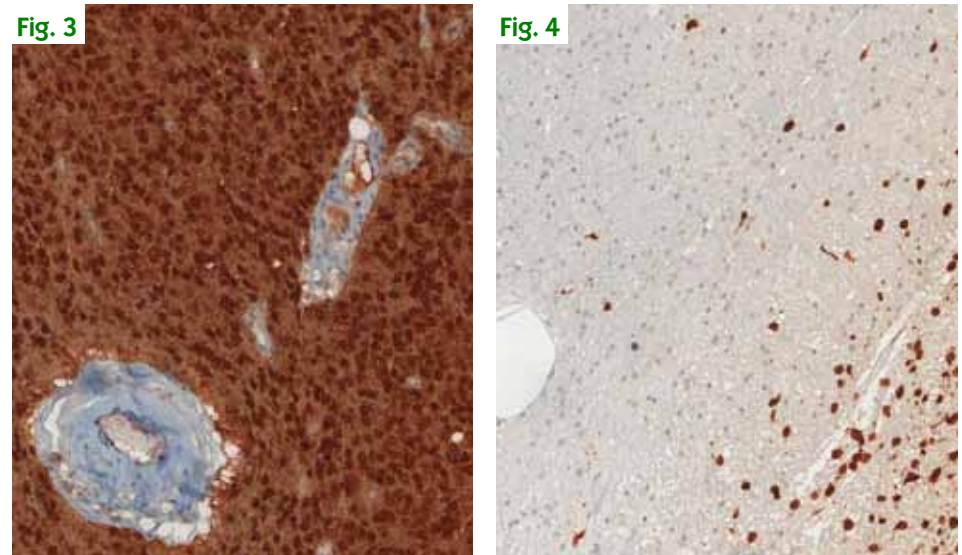


Figure 3: Strong reaction of antibody clone H09 in tumor center of anaplastic oligoastrocytoma. **Figure 4:** Infiltration zone of anaplastic astrocytoma with specific labelling of infiltrating glioma cells by antibody clone H09.

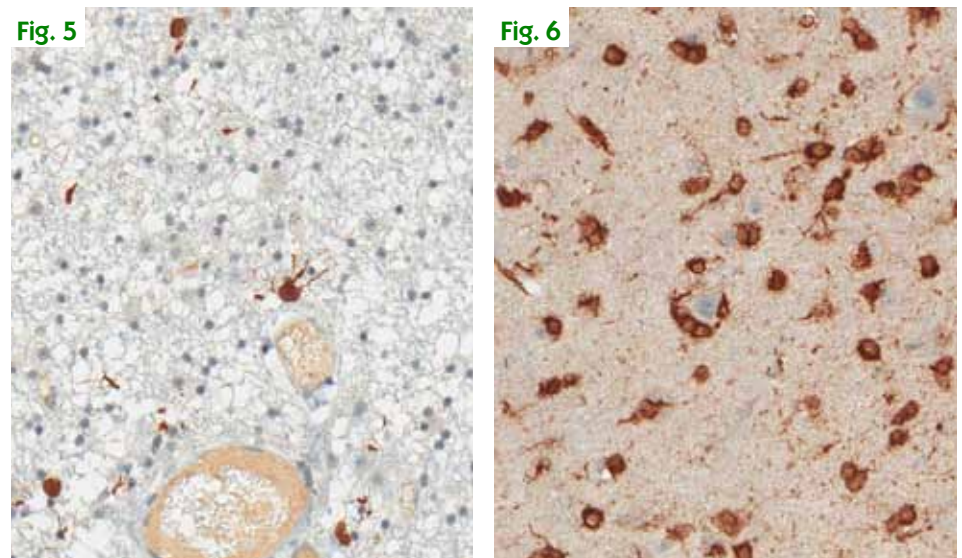


Figure 5: Identification of single tumor cells in white matter distant from tumor center with antibody clone H09. **Figure 6:** Cortex infiltrated by oligodendroglioma with specific labelling of tumor cells by antibody clone H09.