clemovo

Anti-GFAP / DIA-700 Mouse monoclonal anti-Glial Fibrillary Acidic Protein = Astrocyte marker, Clone IF3

Product Information

Catalog No.:	DIA-700-P05 (500µl) DIA-700-M (100µl sample)	Reconstitution:	DIA-700 restore to 500µl DIA-700-M restore to 100µl
Clone:	IF3		Reconstitute with sterile distilled water
Isotype:	Mouse IgG1		by gentle shaking for 10 minutes
Specificity:	Human GFAP	Presentation:	Purified antibody in PBS
Immunogen.	Fusion protein		with 2% BSA, 0.05% NaN3,
Physical State	l vonhilized powder	Applications:	Immunohistochemistry (IHC)
Spacios			(standard formalin-fixed paraffin sections)
Species Boactivity:	Human	Dilution:	1:160-1:320 IHC
Positive	Astrocytes & ependymal cells		(General recommendation, validation of anti-
Control:	Schwann cells		of the end user. Postive/negative controls
Negative	Skin, connective, muscle, gastroint.		should be run simultaneously with patient
Control:	tissues, liver, pancreas, kidney, ureter or bladder tissues		specimen. Interpretation must be made by a qualified pathologist within the context of pa-
Visualization	Cytoplasmic		tient's clinical history/other diagnostic tests.)

Reactivity

GFAP (Glial Fibrillary Acidic Protein) has proved to be the most specific marker for cells of astrocytic origin that distinguishes differentiated astrocytes from other glial cells during the development of the central nervous system. Monoclonal antibodies to GFAP are useful in differentiating primary gliomas from metastatic lesions in the brain and for documenting astrocytic differentiation in tumors outside the CNS

As a 50 kDa intracytoplasmic filamentous protein, GFAP is thought to be important in astrocyte motility and shape by providing structural stability. As a consequence of injury to the human CNS caused by trauma, genetic disorders, or chemicals, GFAP is markly upregulated and astrocytes proliferate. On the other hand, with increasing astrocyte malignancy, a progressive loss of GFAP production has been observed. Consequently, malignant astrocytomas have fewer tumour cells that stain positively and intensely for GFAP than do less malignant astrocytomas and normal brain specimens. Outside the CNS, GFAP has been demonstrated in Schwann cells, enteric glia cells, salivary gland neoplasms, and metastasizing renal carcinomas. Moreover, GFAP has been detected in epiglottic cartilage, pituicytes, immature oligodendrocytes, papillary meningiomas, and myoepithelial cells of the breast.

Instructions for Use

Immunohistochemical staining of standard formalin-fixed paraffin sections

Deparaffinize and rehydrate according to standard procedures. Heat induced epitope retrival (HIER) is required. For immunohistochemical detection different techniques can be used: indirect immunoenzyme labeling with a secondary antibody conjugate, biotin/(strept)avidin-based detection, soluble enzyme immune complex or polymer-based detection. The antibody can be adapted for use on automated staining instruments.

Storage and Stability

The antibody in lyophilised form is stable for at least one year (-20°C). As reconstituted liquid store at 2-8°C short term (several weeks). For long term storage aliquot and freeze at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Safety Notes

The material contains 0.05% sodium azide as preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material. Avoid skin and eye contact, inhalation, and ingestion.

For research use only. Not for diagnostic or therapeutic use.



Dianova GmbH Warburgstrasse 45 D-20354 Hamburg Germany URL:

Email:

Phone:

Fax

www.dianova.com info@dianova.com +49 (0)40 - 45067 - 0 +49 (0)40 - 45067 - 490



MON 0

Data Sheet 003.07.17 Version: Page: 2 of 2

Figure

Immunhistochemical staining pattern of human GFAP in formalin-fixed paraffin-embedded brain tissue (picture courtesy of Dr. Annette Persson, Department of Clinical Science, Pathology, University Hospital, Lund, Sweden)

- A/B Astrocytoma grade II at different magnifications, 10x (A) and 40x (B)
- С Glioblastoma
- D Oligoastrocytoma grade II



For research use only. Not for diagnostic or therapeutic use.



Dianova GmbH Warburgstrasse 45 D-20354 Hamburg Germany

URL:

Email:

Fax

www.dianova.com info@dianova.com +49 (0)40 - 45067 - 0 +49 (0)40 - 45067 - 490 Phone:

