

GFAP (Glial Fibrillary Acidic Protein) Ab-4

Rabbit Polyclonal Antibody

Cat. #RB-087-A0, -A1, or -A (0.1ml, 0.5ml, or 1.0ml)

Cat. #RB-087-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #RB-087-PCS (5 Slides) (Positive Control for Histology)

Description: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes (i.e., glial cells) and ependymal cells of the central nervous system.

Comments: Ab-4 stains astrocytes, glial cells, ependymal cells and their corresponding tumors. In the peripheral nervous system, Schwann cells, satellite cells, and enteric glial cells are stained. Weak staining of axons has been observed. Absorption studies show that this is caused by a cross-reaction with neurofilament protein. Ab-4 is particularly useful for distinguishing neoplasms of astrocytic origin from other neoplasms in the central nervous system by immunohistochemistry.

Mol. Wt. of Antigen: 51-52kDa

Epitope: Not determined

Species Reactivity: Human, Monkey, Cow, Sheep, Guinea pig, Chicken, Mouse, Rat, and Hamster. Others-not known.

Immunogen: GFAP isolated from cow spinal cord.

Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin)
(Ab 1:200-1:400 for 30 min at RT)
- * [No special pretreatment is required for the immunohistochemical staining of formalin/paraffin tissues.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Brain or astrocytoma

Cellular Localization: Cytoplasmic

Supplied As: Purified antibody fraction from rabbit anti-serum. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide, **or** Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Suggested References:

1. Viale G, et al. Glial fibrillary acidic protein immunoreactivity in normal and diseased human breast. *Vichows Arch A Pathol Anat* 1991; 418:339-48.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. NeoMarkers makes no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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