ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Gilial Fibrillary Acidic Protein (GFAP), Polyclonal rabbit-anti-human

**Catalog number:** RP-4016-01 0.5 ml Concentrated IgG 2.0 mg/ml

RP-4016-02 1.0 ml Concentrated IgG 2.0mg/ml

RP-1016-04 7.0 ml Prediluted for IHC IgG 8µg/ml

**Buffer** Protein A purified antibody is supplied with 1% BSA in PBS, 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: Gilial Fibrillary acidic protein (GFAP), a 51 kDa an intermediate filament protein is closely related to non-epithelial family members, Vimentin, desmin and peripherin, which are all involved in structure and function of cell cytoskeleton. GFAP is expressed in central nervous system (CNS) in the astrocytes cells, functioning in cellular processes e.g. cell structure, movements, cell communication, brain processes and brain functions. This antibody stains astrocytes, glial cells, ependymal cells and their corresponding tumors. In the peripheral nervous system , it stains Schwann cells, satellite and enteric glial cells. This antibody distinguishes neoplasm of astrocytes origin from other neoplasm of CNS.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage**: 2-8°C

**Epitope:** not determined.

**Molecular weight of antigen:** 51 kDa

**Immunogen:** .Purified human GFAP

**Species reactivity:** Human, bovine, porcine, ovine, caprinae, guinea pig, rat, mouse; others not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human brain or astrocytoma.

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears) 1:50-1:200 using streptavidin-Biotin system or polymer system. Prediluted antibody is used directly without dilution.

The optimum dilution should be determined by the individual lab.

**General References**

1. Liedtke, W et. al. Neurons 17: 607-615, 1996
2. Fuchs, E et. al. Ann. Rev. Biochem. 63: 345-382, 1994
3. Eng LF, et.al. Neurochem. 25: 1439-1451, 2000.
4. Rutka JT et. al. J. Neurosurg. 87:420-430, 1997
5. Kawathara E et. al. Am. J. Surg.Pathol. 12: 115-120, 1988
6. .Brillaud E et. al. Toxicology 238: 23-33, 2007

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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