GFAP (SA03-04)

rev. 02/03/16

Cat#: ET1601-23

Product Type: Recombinant rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB, IHC, IP

Molecular Wt.: 50 kDa **Clone number:** SA03-04

Description: GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. In particular, vimentin filaments are present at early developmental stages, while GFAP filaments are characteristic of differentiated and mature brain astrocytes. In addition, GFAP intermediate filaments are also present in nonmyelin-forming Schwann cells in the peripheral nervous system.

Immunogen: Recombinant protein.

Positive control:

Rat spinal cord tissue, rat brain tissue, mouse spinal cord tissue, mouse brain tissue.

Subcellular location:

Cytoplasm

Database links:

SwissProt: P14136(Human) P03995(Mouse) P47819(Rat)

Recommended Dilutions:

WB: 1:1,000-1:5,000 **ICC:** 1:50-1:200

IHC: 1:50-1:200

Storage Buffer:

1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction:

Store at +4° C after thawing. Aliquot store at -20° C or -80° C. Avoid repeated freeze / thaw cycles.

Purity:

ProA affinity purified

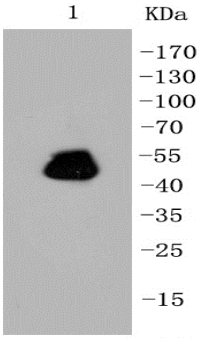

Fig1: Western blot analysis of GFAP on rat brain lysates using anti-GFAP antibody at 1/1,000 dilution.

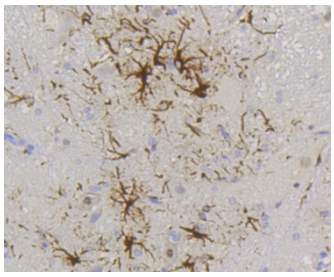

Fig2: Immunohistochemical analysis of paraffin-embedded rat spinal cord tissue using anti-GFAP antibody. Counter stained with hematoxylin.

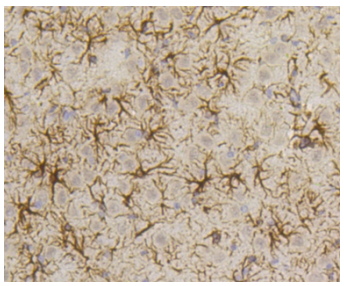

Fig3: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-GFAP antibody. Counter stained with hematoxylin.

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Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish B=bovine Dg=dog Pg=pig Sc=S.

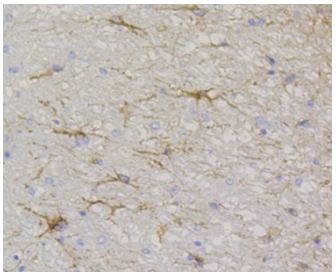

Fig4: Immunohistochemical analysis of paraffin-embedded mouse spinal cord tissue using anti-GFAP antibody. Counter stained with hematoxylin.

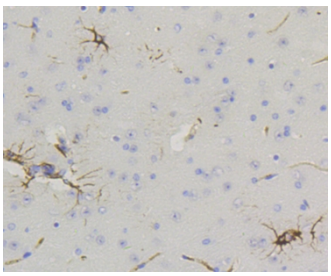

Fig5: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GFAP antibody. Counter stained with hematoxylin.

Background References

1. Zhang N et al. A self-assembly peptide nanofibrous scaffold reduces inflammatory response and promotes functional recovery in a mouse model of intracerebral hemorrhage. Nanomedicine N/A:N/A (2016).
2. Green AL et al. Preclinical antitumor efficacy of selective exportin 1 inhibitors in glioblastoma. Neuro Oncol 17:697-707 (2015).