



HA610317

Product Type:	Recombinant Chimeric Antibody, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	IHC-Fr, WB
Molecular Wt:	Predicted band size: 50 kDa
Clone number:	SA03-04

Description: Glial fibrillary acidic protein (GFAP) is a protein that is encoded by the GFAP gene in humans. It is a type III intermediate filament (IF) protein that is expressed by numerous cell types of the central nervous system (CNS), including astrocytes and ependymal cells during development. GFAP has also been found to be expressed in glomeruli and peritubular fibroblasts taken from rat kidneys, Leydig cells of the testis in both hamsters and humans, human keratinocytes, human osteocytes and chondrocytes and stellate cells of the pancreas and liver in rats. GFAP is closely related to the other three non-epithelial type III IF family members, vimentin, desmin and peripherin, which are all involved in the structure and function of the cell's cytoskeleton. GFAP is thought to help to maintain astrocyte mechanical strength as well as the shape of cells, but its exact function remains poorly understood, despite the number of studies using it as a cell marker.

Immunogen: Synthetic peptide within Human GFAP aa 1-50 / 432.

Positive control: Mouse brain tissue lysate, Rat brain tissue lysate.

Subcellular location: Cytoplasm

Database links: SwissProt: P03995 Mouse | P47819 Rat

Recommended Dilutions:

IHC-Fr	1:1,000
WB	1:2,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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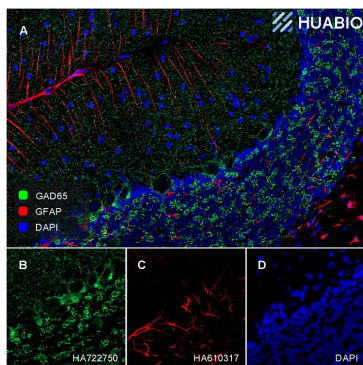
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Images

**Fig1:** Application: IHC-Fr

Species: Rat

Site: cerebellum

Sample: Frozen section

Antibody concentration: 1/1,000 (GFAP, HA610317, Rat, red);
1/500 (GAD65, HA722750, Rabbit, green)

Antigen retrieval: Not required

Fig2: Western blot analysis of GFAP on different lysates with Rat anti-GFAP antibody (HA610317) at 1/2,000 dilution.

Lane 1: Mouse brain tissue lysate

Lane 2: Rat brain tissue lysate

Lane 3: Mouse liver tissue lysate (negative)

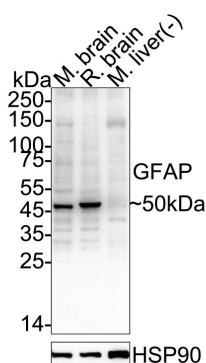
Lysates/proteins at 20 µg/Lane.

Predicted band size: 50 kDa

Observed band size: 50 kDa

Exposure time: 1 minute; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610317) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rat IgG H&L - HRP Secondary Antibody (HA1023) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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).

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