

Datasheet: 4650-0309

Description:	MOUSE ANTI HUMAN GFAP
Specificity:	GFAP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	GF-05
Isotype:	IgG2b
Quantity:	0.2 mg

Product Details

RRID AB_617282

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species Human

Species Cross Reactivity Reacts with: Cynomolgus monkey
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Native GFAP purified from human brain.

External Database Links **UniProt:**

Entrez Gene:

[2670](#) GFAP [Related reagents](#)

Specificity **Mouse anti Human Glial Fibrillary Acidic Protein antibody, clone GF-05** recognizes human glial fibrillary acidic protein (GFAP). GFAP is a 432 amino acid intermediate filament protein. Mouse anti Human Glial Fibrillary Acidic Protein antibody, clone GF-05 recognizes ~38-45 kDa neurofilaments in immunoblots. Mouse anti Human Glial Fibrillary Acidic Protein antibody, clone GF-05 is also reactive in ELISA with antigen coating at 5 µg/ml and may react with GFAP from other species.

Mutations in the GFAP gene may result in presentation of Alexander disease ([ALXDRD](#)), a rare neurological condition affecting infants and characterized by myelination failure leading to early death ([Brenner et al. 2001](#))

References

1. Burbaeva, G.Sh. *et al.* (2007) Systemic neurochemical alterations in schizophrenic brain: glutamate metabolism in focus. [Neurochem Res. 32: 1434-44.](#)
2. Gil-Perotin, S. *et al.* (2009) Ultrastructure of the subventricular zone in *Macaca fascicularis* and evidence of a mouse-like migratory stream. [J Comp Neurol. 514: 533-54.](#)
3. Garbayo, E. *et al.* (2016) Brain delivery of microencapsulated GDNF induces functional and structural recovery in parkinsonian monkeys. [Biomaterials. Sep 21 \[Epub ahead of print\]](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted.
Avoid repeated freezing and thawing as this may denature the antibody.
Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Human Anti Mouse IgG2b (HCA038...) [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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