

Datasheet: VMA00189

Description:	MOUSE ANTI NEUROFILAMENT
Specificity:	NEUROFILAMENT
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI3G2
Isotype:	IgG1
Quantity:	100 µl

Product Details

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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites.

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin
50% Glycerol

Immunogen Recombinant protein fragment corresponding to amino acids 1-360 of human neurofilament (NP_006149) produced in *E. coli*

External Database Links

UniProt:

[P07196](#) [Related reagents](#)

Entrez Gene:

[4747](#) NEFL [Related reagents](#)

Synonyms NF68, NFL

Specificity **Mouse anti Human neurofilament antibody, clone OTI3G2** recognizes neurofilament, also known as light molecular weight neurofilament protein, neurofilament light polypeptide, neurofilament protein, light chain, neurofilament subunit NF-L, neurofilament triplet L protein, neurofilament, light polypeptide 68kDa and protein phosphatase 1 regulatory subunit 110.

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. The NEFL gene encodes the light chain neurofilament protein. Mutations in NEFL cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y (provided by RefSeq, Oct 2008).

Mouse anti Human neurofilament antibody, clone OTI3G2 detects a band of 70 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti neurofilament detects a band of approximately 70 kDa in mouse brain cell lysates.

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee 12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10048 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00189>
Antibody (10048)

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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