

Datasheet: VMA00189

**BATCH NUMBER 240615**

|                      |                          |
|----------------------|--------------------------|
| <b>Description:</b>  | MOUSE ANTI NEUROFILAMENT |
| <b>Specificity:</b>  | NEUROFILAMENT            |
| <b>Format:</b>       | Purified                 |
| <b>Product Type:</b> | PrecisionAb Monoclonal   |
| <b>Clone:</b>        | OTI3G2                   |
| <b>Isotype:</b>      | IgG1                     |
| <b>Quantity:</b>     | 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](http://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

0.09% Sodium Azide (NaN<sub>3</sub>)

|                                      |   |
|--------------------------------------|---|
| <b>Stabilisers</b>                   | 1% Bovine Serum Albumin<br>50% Glycerol   |
| <b>Immunogen</b>                     | Recombinant protein fragment corresponding to amino acids 1-360 of human neurofilament (NP_006149) produced in <i>E. coli</i>   |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">P07196</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">4747</a>    NEFL    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                      | NF68, NFL   |
| <b>Specificity</b>                   | <p><b>Mouse anti Human neurofilament antibody, clone OTI3G2</b> 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.</p> <p>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).</p> <p>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.</p> |
| <b>Western Blotting</b>              | Anti neurofilament detects a band of approximately 70 kDa in mouse brain cell lysates.  |
| <b>Storage</b>                       | Store undiluted at -20°C, avoiding repeated freeze thaw cycles.   |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Acknowledgements</b>              | PrecisionAb is a trademark of Bio-Rad Laboratories.   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10048 available at:<br><a href="https://www.bio-rad-antibodies.com/SDS/VMA00189">https://www.bio-rad-antibodies.com/SDS/VMA00189</a><br>Antibody (10048)   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

## Recommended Secondary Antibodies

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

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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](https://bio-rad-antibodies.com/datasheets)

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