

Datasheet: MCA4752

Description:	MOUSE ANTI RAT NEUROFILAMENT M (C-TERMINAL)
Specificity:	NEUROFILAMENT M (C-TERMINAL)
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	3H11
Isotype:	IgG1
Quantity:	0.1 ml

Product Details

RRID AB_2150079

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000
Immunofluorescence	▪			1/100

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 appropriate negative/positive controls.

Target Species Rat

Species Cross Reactivity Reacts with: Human, Mouse, Chicken, Bovine
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Tissue Culture Supernatant - liquid

Preservative Stabilisers 0.065% Sodium Azide (NaN₃)

Immunogen Recombinant fusion protein containing the extreme C-terminus of rat NF-M expressed in and purified from *E.coli*.

External Database Links

UniProt:

[P12839](#)

[Related reagents](#)

[P08553](#)

[Related reagents](#)

[P07197](#) [Related reagents](#)

[P16053](#) [Related reagents](#)

Entrez Gene:

[24588](#) Nefm [Related reagents](#)

[18040](#) Nefm [Related reagents](#)

[396206](#) NEFM [Related reagents](#)

[4741](#) NEFM [Related reagents](#)

Synonyms Nef3, NEF3, Nfm, NFM

Specificity **Mouse anti Rat Neurofilament M antibody, clone 3H11** recognizes the carboxy terminus of rat neurofilament M (NF-M), one of three neurofilament proteins (NF-H, NF-M and NF-L). Neurofilaments are 10nm intermediate filaments found in neurons, with especially high concentrations along the axons, where they appear to control axonal diameter. It is thought that phosphorylation of NF-M results in the formation of interfilament cross-bridges that are important in the maintenance of axonal calibre.

Mouse anti Rat Neurofilament M antibody, clone 3H11 also binds to a C- terminal epitope of [bovine NF-M](#) between amino acids 842 and 926.

Western Blotting MCA4572 detects a band of approximately 145kDa in rat cortex lysate.

References

1. Shaw, G. *et al.* (2002) Preferential transformation of human neuronal cells by human adenoviruses and the origin of HEK 293 cells. [FASEB J. 16: 869-71.](#)
2. Shaw, G. *et al.* (2004) Characterization of the bovine neurofilament NF-M protein and cDNA sequence, and identification of in vitro and in vivo calpain cleavage sites. [Biochem Biophys Res Commun. 325: 619-25.](#)

Further Reading

1. Shaw, G. *et al.* (1997) Characterization of additional casein kinase I sites in the C-terminal "tail" region of chicken and rat neurofilament-M. [J Neurochem. 69: 1729-37.](#)

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 #10055 available at: 10055: <https://www.bio-rad-antibodies.com/uploads/MSDS/10055.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](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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