

Datasheet: 0100-0326

Description:	MOUSE ANTI RAT NEUROFILAMENT M 145kDa
Specificity:	NEUROFILAMENT M 145kDa
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	3H11 (2E30)
Isotype:	IgG
Quantity:	0.3 ml

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.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	■			1/50 - 1/1000
Western Blotting	■			1/1K - 1/2K

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	Rat
Species Cross Reactivity	Reacts with: Birds, Mammals, Bovine N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Ig fraction - liquid
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Recombinant fusion protein RM:677-845 containing the last 169 amino acids of rat neurofilament (145 kD). Purified from <i>E. coli</i> inclusion bodies by Ion exchange chromatography. Corresponds to the rat NF-M KE segment (lysine glutamate) (ref.1)
External Database Links	UniProt: P12839 NFM_RAT Related reagents Entrez Gene: 24588 Nefm Related reagents
Synonyms	Nef3, Nfm
Specificity	3H11 reacts with an epitope dependent on the last 84 amino acids of rat NF-M (145 kD). Neurofilament proteins consist of the light NF-L, medium NF-M and heavy NF-H subunits. Most neurons appear to express these proteins but their ratios and phosphorylation states are variable. Clone 3H11 has also been determined to bind to a C- terminal epitope of bovine NF-M SEE IMAGE. from: Shaw <i>et al.</i> 2004
References	1. Harris, J. <i>et al.</i> (1991) A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H. J. Neurosci. Res. 30: 47-62.

2. Benson, D. L. *et al.* (1996) Compartmentation of alpha-interneuron and neurofilament triplet proteins in cultured hippocampal neurons. [J. Neurocytol. 25: 181-196.](#)
3. Harris, J. *et al.* (1993) Unusual neurofilament composition in cerebellar unipolar brush neurons. [J. Neurocytol. 22: 1039-1059.](#)
4. Eaker E. Y. *et al.* (1993) Myenteric plexus neurons have developmentally acquired differences in the medium molecular weight subunit of neurofilament protein. [Neuroscience. 53: 561-570.](#)
5. 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.](#)
6. 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. <i>et al.</i> (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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10055 available at: http://www.abdserotec.com/uploads/MSDS/10055.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
HuCAL Anti Mouse IgG2a (HCA037...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
HuCAL Anti Mouse IgG3 (HCA039...)	FITC , HRP , RPE
HuCAL Anti Mouse IgG2b (HCA038...)	FITC , HRP , RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR12...)	RPE
Sheep Anti Mouse IgG (H/L) (AAC10...)	Biotin , FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
HuCAL Anti Mouse IgG1 (HCA036...)	HRP

North & South America Tel: +1 800 265 7376 **Worldwide**
Fax: +1 919 878 3751
Email: sales.us@abdserotec.com

Tel: +44 1865 852 700 **Europe**
Fax: +44 1865 852 739
Email: sales@abdserotec.com

Tel: 00800 2255 4223
Fax: 00800 2329 2223
Email: sales.eu@abdserotec.com

'M201397:120126'

Printed on 10 Oct 2012

