

## Datasheet: MCA1321

<b>Description:</b>	MOUSE ANTI RAT NEUROFILAMENT 200kDa
<b>Specificity:</b>	NEUROFILAMENT H 200kDa
<b>Other names:</b>	NEUROFILAMENT HEAVY POLYPEPTIDE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RT97
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			
Immunohistology - Paraffin	■			1/50 - 1/100
Immunohistology - Resin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	Reacts with: Reptile, Human, Chicken, Pig, Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by hydrophobic interaction chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16884</a> NFH_RAT <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">24587</a> Nefh <a href="#">Related reagents</a></p>

<b>Synonyms</b>	Nfh
<b>Specificity</b>	<p>MCA1321 recognises the 200kD neurofilament protein in a range of species. This antibody stains various tumours including pheochromocytoma, paraganglioma and ganglioneuroblastoma.</p> <p>It has also been demonstrated that the RT97 antibody also recognises a phosphorylation dependent epitope on microtubule associated protein 1B (MAP1B) and on Tau in Western blots. Reactivity of the antibody with MAP1 and Tau is not seen under the conditions for immunohistochemistry.</p>
<b>Immunohistology</b>	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
<b>Histology Positive Control Tissue</b>	Brain or spinal cord
<b>References</b>	<ol style="list-style-type: none"> <li>1. Weber, K. <i>et al.</i> (1983) Neurofilaments, a subclass of intermediate filaments: structure and expression. <a href="#">C.S.H. Symp. Quant. Biol. 48: 717-729.</a></li> <li>2. Anderton, B. H. <i>et al.</i> (1982) Monoclonal antibodies show that neurofibrillary tangles and neurofilaments share antigenic determinants. <a href="#">Nature 298: 84-86.</a></li> <li>3. Johnstone, M. <i>et al.</i> (1997) The neurofilament antibody RT97 recognises a developmentally regulated phosphorylation epitope on microtubule associated protein 1B. <a href="#">J. Anat. 191: 229-244.</a></li> <li>4. Tonge, D. A. <i>et al.</i> (1996) Expression of a developmentally regulated phosphorylated form of microtubule - associated protein B in sprouting and regenerating axons <i>in vitro</i>. <a href="#">Neuroscience. 73: 541 - 551.</a></li> <li>5. Sann, H. <i>et al.</i> (1995) RT97: a marker for capsaicin-insensitive sensory endings in the rat skin. <a href="#">Cell Tissue Res. 282: 155 - 161.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10040 available at: <a href="http://www.abdserotec.com/uploads/MSDS/10040.pdf">http://www.abdserotec.com/uploads/MSDS/10040.pdf</a>

## Related Products

### Recommended Negative Controls

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

**For research purposes only, unless otherwise specified in writing by AbD Serotec.**

'M177413:110225'



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