

## Datasheet: MCA1321GA

**BATCH NUMBER 156426**

<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>	0.1 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. 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			1/50 - 1/100
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.

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Human, Chicken, Pig, Mouse

Based on sequence similarity, is expected to react with: Reptile

**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

Purified IgG prepared by hydrophobic interaction chromatography from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative** 0.1% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 0.1% Bovine Serum Albumin

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**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml

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**Immunogen** Triton X-100-insoluble rat brain protein.

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**External Database Links**

**UniProt:**

[P16884](#) [Related reagents](#)

**Entrez Gene:**

[24587](#) Nefh [Related reagents](#)

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**Synonyms** Nfh

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**RRID** AB\_1102789

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**Specificity** **Mouse anti Rat Neurofilament 200kDa antibody, clone RT97** recognizes the 200kDa neurofilament protein in a range of species. Mouse anti Rat Neurofilament 200kDa antibody, clone RT97 stains various tumors including pheochromocytoma, paraganglioma and ganglioneuroblastoma.

Mouse anti Rat Neurofilament 200kDa antibody, clone RT97 also recognizes a phosphorylation dependent epitope on fetal tau, Alzheimer's paired helical filament-tau and on microtubule associated protein 1B (MAP1B) by western blotting, however similar reactivity was not apparent in immunohistochemical studies ([Johnstone et al. 1997](#)).

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**Immunohistology** 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.

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**Histology Positive Control Tissue** Brain or spinal cord

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**References**

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20. Vidal-Sanz, M. *et al.* (2015) Retinal neurodegeneration in experimental glaucoma. [Prog Brain Res. 220: 1-35.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1321GA">https://www.bio-rad-antibodies.com/SDS/MCA1321GA</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

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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://www.bio-rad-antibodies.com/datasheets)  
'M365134:200529'

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