

## Datasheet: MCA6305

<b>Description:</b>	RABBIT ANTI GFAP
<b>Specificity:</b>	GFAP
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM246
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 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.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/200 - 1/500
Western Blotting	▪			1/1000 - 1/3000

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

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

Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide  
1% Bovine Serum Albumin

50% Glycerol

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**Immunogen** A peptide corresponding to the N-terminus of Human GFAP.

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**External Database Links**

**UniProt:**

[P14136](#) [Related reagents](#)

**Entrez Gene:**

[2670](#) GFAP [Related reagents](#)

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**Specificity**

**Rabbit anti Human GFAP antibody, clone RM246** recognizes glial fibrillary acidic protein (GFAP). GFAP plays a role in several cellular functions within the central nervous system (CNS), including cell structure and stability, communication, motility and mitosis, and is rapidly synthesized during astrogliosis following trauma/injury ([Eng and Ghirnikar 1994](#)).

GFAP is an intermediate filament protein that is primarily expressed in astrocytes, and is upregulated following injury to the central nervous system (CNS) ([Brenner et al. 2014](#)), inhibiting the inflammatory response and limiting damage within a controllable region ([Zhang et al. 2017](#)).

Dominant acting mutations in GFAP leading to elevated GFAP levels in astrocytes is characteristic of Alexander disease, a fatal neurological illness ([Messing et al. 2019](#)). GFAP is also a potential marker for tumors with cartilaginous differentiation ([Santos et al. 2009](#)).

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**References**

1. Despa, F. *et al.* (2020) Amylin as a Potential Link between Type 2 Diabetes and Alzheimer Disease. [Ann Neurol. 87 \(3\): 486.](#)
  2. Kang, D.H. *et al.* (2020) Effects of Cerebrolysin on Hippocampal Neuronal Death After Pilocarpine-Induced Seizure. [Front Neurosci. 14: 568813.](#)
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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10048 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6305>  
10048

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [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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**Printed on 18 Jan 2024**

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