

## Datasheet: MCA1712

<b>Description:</b>	MOUSE ANTI GROWTH CONE
<b>Specificity:</b>	GROWTH CONE
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2G13
<b>Isotype:</b>	IgM
<b>Quantity:</b>	2 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry		▪		
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
Immunohistology - Resin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Radioimmunoassays			▪	

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. Clone 2G13 has also been reported to work in Western Blotting.

### Target Species

Chicken

### Species Cross Reactivity

Reacts with: Rat, Mouse

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Tissue Culture Supernatant - liquid

### Preservative Stabilisers

0.09% Sodium Azide

### Immunogen

Embryonic chick tectal membranes

### Fusion Partners

Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.

### Specificity

MCA1712 recognises intracellular 2G13P which is localized to growth cones, particularly filopodia and lamellipodia in developing rat CNS and embryonic neurons in culture.

Studies suggest that 2G13P interacts with the filamentous actin cytoskeleton and therefore may be involved in growth cone motility.

### 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.

### References

1. Stettler, O. *et al.* (1999) Monoclonal antibody 2G13, a new axonal growth cone marker. [J. Neurocytol. 28: 1035 -](#)

[1044.](#)

2. Baloui, H. *et al.* (2004) Cellular prion protein/laminin receptor: distribution in adult central nervous system and characterization of an isoform associated with a subtype of cortical neurons. [Eur. J. Neurosci. 20\(10\): 2605-2616.](#)

3. Espejo, C. *et al.* (2005) Time-course expression of CNS inflammatory, neurodegenerative tissue repair markers and metallothioneins during experimental autoimmune encephalomyelitis. [Neuroscience. 132\(4\):1135-49.](#)

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<b>Storage</b>	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.
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10055 available at: <a href="http://www.abdserotec.com/uploads/MSDS/10055.pdf">http://www.abdserotec.com/uploads/MSDS/10055.pdf</a>

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...)	<a href="#">Alk. Phos.</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
HuCAL Anti Mouse IgM (HCA040...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgM (STAR86...)	<a href="#">FITC</a> , <a href="#">RPE</a>

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

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