

Datasheet: MCA2770

Description:	MOUSE ANTI HUMAN S100 PROTEIN
Specificity:	S100
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	6G1
Isotype:	IgG1
Quantity:	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. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
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	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1 mg/ml

Immunogen	Human brain S100 protein.
RRID	AB_1102842
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human S100 Protein antibody, clone 6G1 recognizes S100 protein derived from human brain tissue. It is a ~21 kDa acidic calcium-binding protein synthesised by astroglial cells. It can be found predominantly as two isoforms, the alpha-beta heterodimer (S100a) and the beta-beta homodimer (S100b). The S100 family of proteins have been implicated in a large variety of intracellular and extracellular regulatory activities, such as cellular energy metabolism, cytoskeleton modification, cell proliferation and differentiation.</p> <p>When glial cells are damaged, S100 protein is leaked into the extracellular matrix and cerebrospinal fluid, further releasing into the bloodstream. As such, S100 protein can be used as a sensitive and reliable marker for nervous system damage, such as after brain damage or acute stroke.</p> <p>Mouse anti Human S100 Protein antibody, clone 6G1 recognizes both S100a (alpha-beta) and S100b (beta-beta).</p> <p>Mouse anti Human S100 Protein antibody, clone 6G1 is sensitive to EDTA and other bivalent-binding agents. Better performance can be obtained in the presence of 5mM CaCl₂ in assay buffers.</p>
References	<ol style="list-style-type: none"> 1. Paus, E. <i>et al.</i> (2011) TD-11 workshop report: characterization of monoclonal antibodies to S100 proteins. Tumour Biol. 32 (1): 1-12. 2. Wang, Q. <i>et al.</i> (2012) Evaluation of human brain damage in fatalities due to extreme environmental temperature by quantification of basic fibroblast growth factor (bFGF), glial fibrillary acidic protein (GFAP), S100β and single-stranded DNA (ssDNA) immunoreactivities. Forensic Sci Int. 219 (1-3): 259-64.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M389489:210806'

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