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	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Human brain S100 protein.
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	**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. 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. Mouse anti Human S100 Protein antibody, clone 6G1 recognizes both S100a (alpha-beta) and S100b (beta-beta). 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 $CaCl_2$ in assay buffers.
References	1. Paus, E. *et al.* (2011) TD-11 workshop report: characterization of monoclonal antibodies to S100 proteins. Tumour Biol. 32 (1): 1-12. 2. Wang, Q. *et al.* (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	Store at +4^{o}C or at -20^{o}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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10040 available at: 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 (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC

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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