

Datasheet: MCA686S

Description:	MOUSE ANTI HUMAN MBP (aa84-89)
Specificity:	MBP (aa84-89)
Other names:	MYELIN BASIC PROTEIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	22
Isotype:	IgG2b
Quantity:	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. 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	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.05% Sodium Azide
Immunogen	Human myelin basic protein.
External Database Links	<p>UniProt: P02686 Related reagents</p> <p>Entrez Gene: 4155 MBP Related reagents</p>
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti MBP antibody, clone 22 recognizes an epitope between amino acids 84 and 89 of

human myelin basic protein, also known as MBP, Myelin A1 protein or Myelin membrane encephalitogenic protein. MBP is a 304 amino acid ~33 kDa abundant component of the myelin membrane. There are 6 potential isoforms of MBP generated by alternative splicing, 4 of which lack the N-terminal region containing the immunogen sequence. Mouse anti MBP antibody, clone 22 is expected to recognize isoforms 1 and 2 ([UniProt: P02686](#)). The N-terminal region of MBP is highly conserved and Mouse anti MBP antibody, clone 22 is expected to be broadly species cross reactive for isoforms maintaining the N-terminal region. Mouse anti MBP antibody, clone 22 has been reported as suitable for use in western blotting ([Chignola et al. 2000](#)).

Histology Positive Control TissueBrain

References

1. Groome, N. P. *et al.* (1988) New monoclonal antibodies reactive with defined sequential epitopes in human myelin basic protein. [J. Neuroimmunol 19: 305-315.](#)
2. Martenson, R. E. (1984) Experimental allergic encephalomyelitis. A useful model of multiple sclerosis. Eds Alvord, Kies and Suckling pp 511-521. Alan Liss N.Y.
3. Harrower, T.P. *et al.* (2006) Long-term survival and integration of porcine expanded neural precursor cell grafts in a rat model of Parkinson's disease. [Exp Neurol. 197: 56-69.](#)
4. Liao, M.C. *et al.* (2009) Degradation of amyloid beta protein by purified myelin basic protein. [J Biol Chem. 284: 28917-25.](#)
5. Diemel, L.T. *et al.* (2003) Role for TGF-beta1, FGF-2 and PDGF-AA in a myelination of CNS aggregate cultures enriched with macrophages. [J Neurosci Res. 74 \(6\): 858-67.](#)

Storage

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

This product should be stored undiluted. 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 InformationMaterial Safety Datasheet documentation #10055 available at: 10055: <https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf>**Regulatory**For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC , HRP

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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'M318889:180719'

Printed on 01 Aug 2018

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