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Product datasheet for SM1455

Myelin Basic Protein (MBP) (129-138) Mouse Monoclonal Antibody [Clone ID: 1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1
Applications:	ELISA, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections: 1/10. ELISA: 1/200 - 1/1000.
Reactivity:	Bovine, Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Bovine Myelin Basic Protein (MBP). Spleen cells from immunised NIH mice were fused with cells of the NSO mouse myeloma cell line.
Specificity:	This antibody recognises myelin basic protein (MBP). Clone 1 is reactive with an epitope in the 129-138 region of the human MBP molecule. The numbering of MBP residues is that as described by Martenson.
Formulation:	0.2M Tris/HCl pH7.4 containing 5-10% foetal calf serum and 0.09% Sodium Azide State: Supernatant State: Liquid Tissue Culture Supernatant
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	myelin basic protein
Database Link:	Entrez Gene 4155 Human P02686

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Background: The classic group of Myelin basic protein (MBP) isoforms (isoforms 4 to 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non classic group of MBP isoforms (isoforms 1 to 3/Golli MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T cells and neural cells. Differential splicing events combined to optional posttranslational modifications give a wide spectrum of isomers, each of them having maybe a specialized function.

Synonyms: MBP