

Product datasheet for **SM1449S**

Myelin Basic Protein (MBP) (36-50) Rat Monoclonal Antibody [Clone ID: 14]

Product data:

Product Type:	Primary Antibodies
Clone Name:	14
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections. ELISA.
Reactivity:	Human, Mammalian
Host:	Rat
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Bovine myelin basic protein. Spleen cells from immunised outbred rats were fused with cells of the mouse NSO myeloma cell line.
Specificity:	This antibody recognises myelin basic protein, recognising a synthetic peptide corresponding to amino acids 36-50, as strongly as intact human MBP. Clone 14 has also been reported to work in Western blotting.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant containing 0.09% Sodium Azide
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