



Mouse MBP peptide (DAG-P0830)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The protein encoded by the classic Mbp gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, Mbp-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long Mbp gene (otherwise called "Golli-Mbp") that contains 3 additional exons located upstream of the classic Mbp exons. Alternative splicing from the Golli and the Mbp transcription start sites gives rise to 2 sets of Mbp-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-Mbp, spliced in-frame to 1 or more Mbp exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to Mbp aa sequence. The second family of transcripts contain only Mbp exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the Mbp transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. Mutation of the Mbp gene is associated with the shiverer and myelin deficient phenotypes in mouse. [provided by RefSeq, Jul 2008]

Specificity

MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.

Conjugate

Unconjugated

Sequence Similarities

Belongs to the myelin basic protein family.

Format

Liquid

Preservative

None

Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	Mbp myelin basic protein [Mus musculus (house mouse)]
Official Symbol	MBP
Synonyms	MBP; myelin basic protein; mld; shi; Hmbpr; C76307; R75289; golli-mbp; shiverer; myelin deficient; myelin A1 protein;
Entrez Gene ID	17196
mRNA Refseq	NM_001025245.1
Protein Refseq	NP_001020416.1
UniProt ID	P04370
Chromosome Location	18 E2-E4; 18 55.84 cM
Pathway	MAPK Cascade, organism-specific biosystem; Spinal Cord Injury, organism-specific biosystem;
Function	protease binding; structural constituent of myelin sheath;