

Rat myelin basic protein ELISA Kit | MBP elisa kit

Rat myelin basic protein, MBP ELISA Kit

CATALOG #
AAA79737

REACTIVITY
Rat

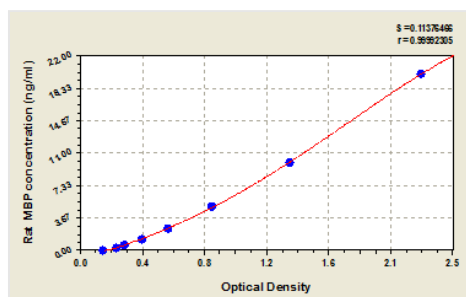
PRODUCT SYNONYMS

myelin basic protein; Rat myelin basic protein; MBP ELISA Kit; MGC99675; Golli-mbp; OTTHUMP00000174383; MBP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat MBP. No significant cross-reactivity or interference between Rat MBP and analogues was observed.
Sequence Length	168
Samples	Serum, plasma, tissue homogenates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MBP elisa kit	Introduction: Myelin basic protein (MBP) is a protein believed to be important in the process of myelination of nerves in the central nervous system (CNS). MBP was initially sequenced in 1979 after isolation from myelin membranes. Since that time, knockout mice deficient in MBP have been developed which showed decreased amounts of CNS myelination and a progressive disorder characterized by tremors, seizures, and early death. The gene for MBP is on chromosome 18; the protein localizes to the CNS and to various cells of the hematopoietic system. The pool of MBP in the central nervous system is very diverse, with several splice variants being expressed and a large number of post-translational modifications on the protein, which include phosphorylation, methylation, deamidation and citrullination. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to MBP. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for MBP and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain MBP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of MBP in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17378880
UniProt Accession #	P25274
Molecular Weight	18,217 Da
NCBI Official Full Name	Myelin basic protein
UniProt Protein Name	Myelin basic protein
UniProt Gene Name	MBP
UniProt Synonym Gene Names	MBP
UniProt Entry Name	MBP_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.