Major Basic Protein (MBP) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Major Basic Protein (MBP), Monoclonal Antibody
Full Product Name	HRP-Linked Monoclonal Antibody to Major Basic Protein (MBP)
Product Gene Name	anti-MBP antibody
Product Synonym Names	Major Basic Protein; PRG2; BMPG; Proteoglycan 2; Bone Marrow,Natural Killer Cell Activator; Eosinophil Graule Major Basic Protein; Proteoglycan 2,Bone Marrow; Pregnancy-associated major basic
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	D2
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid. 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	>=1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months Stable for 12 months if correctly stored.
Matching Pairs	Antibody: MBP Clone #D2 (MBS2140870) Immunogen: MBP (MBS2122840)
Matching Pairs	Unconjugated Antibody: MBP Clone #D2 (MBS2151928) HRP Conjugated Antibody: MBP Clone #D2 (MBS2140870)
Molecular Weight	25kDa
Immunogen Sequence Positions	Gln105~Tyr222
OMIM	605601
3D Structure	ModBase 3D Structure for P13727
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	HRP
Product Categories/Family for anti-MBP antibody	Monoclonal Antibodies (Primary Abs); Primary, HRP-conjugated; Infection immunity
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-MBP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-MBP antibody	WB: 0.01-2ug/mL IHC: 5-20ug/mL ICC: 5-20ug/mL
Related Product Information for anti-MBP antibody	MBS2140870 is an antibody targeting MBP. Also known as HRP-Linked Monoclonal Antibody to Major Basic Protein (MBP). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-MBP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MBP. It may not necessarily be applicable to this product.

NCBI GI #	281185479
NCBI GeneID	5553
NCBI Accession #	P13727.2
UniProt Primary Accession #	P13727
UniProt Secondary Accession #	P81448; Q14227; Q6ICT2; A6XMW0; B2R5I1
UniProt Related Accession #	P13727
NCBI Official Full Name	Bone marrow proteoglycan
NCBI Official Synonym Full Names	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)
NCBI Official Symbol	PRG2
NCBI Official Synonym Symbols	MBP; BMPG; MBP1
UniProt Protein Name	Bone marrow proteoglycan
UniProt Synonym Protein Names	Proteoglycan 2Eosinophil granule major basic protein; EMBP; MBPAlternative name(s):Pregnancy-associated major basic protein
Protein Family	Myelin basic protein
UniProt Gene Name	PRG2
UniProt Synonym Gene Names	MBP; BMPG; EMBP; MBP
UniProt Entry Name	PRG2_HUMAN
NCBI Protein Information	bone marrow proteoglycan; bone-marrow proteoglycan; proteoglycan 2 preproprotein; natural killer cell activator; eosinophil major basic protein; eosinophil granule major basic protein
NCBI Summary for MBP	The protein encoded by this gene is the predominant constituent of the crystalline core of the eosinophil granule. High levels of the proform of this protein are also present in placenta and pregnancy serum, where it exists as a complex with several other proteins including pregnancy-associated plasma protein A (PAPPA), angiotensinogen (AGT), and C3dg. This protein may be involved in antiparasitic defense mechanisms as a cytotoxin and helminthotoxin, and in immune hypersensitivity reactions. The encoded protein contains a peptide that displays potent antimicrobial activity against Gram-positive bacteria, Gram-negative bacteria, and fungi. It is directly implicated in epithelial cell damage, exfoliation, and bronchospasm in allergic diseases. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]
UniProt Comments for MBP	PRG2: Cytotoxin and helminthotoxin. Also induces non-cytolytic histamine release from human basophils. Involved in antiparasitic defense mechanisms and immune hypersensitivity reactions. The proform acts as a proteinase inhibitor, reducing the activity of PAPPA. Protein type: Vesicle; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11q12 Cellular Component: transport vesicle; extracellular region Molecular Function: heparin binding; carbohydrate binding Biological Process: positive regulation of interleukin-4 production; negative regulation of interleukin-10 production; defense response to bacterium; immune response; defense response to nematode

Research Articles on MBP	**1.** mRNA levels of eosinophil granule proteins, rather than sputum eosinophil%, may reflect airway hyperresponsiveness and airflow limitation.
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