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
Clonality	Monoclonal
Isotype	IgG2a Kappa
Clone Number	C3
Host	Mouse
Species Reactivity	Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	HRP Conjugated Antibody: MBP Clone #C3 (MBS2057492) Immunogen: MBP (MBS2018803)
Matching Pairs	Unconjugated Antibody: MBP Clone #C3 (MBS2085901) HRP Conjugated Antibody: MBP Clone #C3 (MBS2057492)
Molecular Weight	23,901 Da
OMIM	Y00809 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Gly80~Lys219
Conjugation	HRP
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2085901
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-MBP antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP), ELISA (EIA)
Related Product Information for anti-MBP antibody	MBS2057492 is an antibody targeting MBP. Also known as HRP-Linked Monoclonal Antibody to Major Basic Protein (MBP). Reactive in Rat. 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 #	187415
NCBI GeneID	5553
NCBI Accession #	AAA36203.1

UniProt Secondary Accession #	P81448; Q14227; Q6ICT2; A6XMW0; B2R5I1
UniProt Related Accession #	P13727
NCBI Official Full Name	major basic protein
NCBI Official Synonym Full Names	proteoglycan 2, pro eosinophil major basic protein
NCBI Official Symbol	PRG2
NCBI Official Synonym Symbols	MBP; BMPG; MBP1; proMBP
UniProt Protein Name	Bone marrow proteoglycan
UniProt Synonym Protein Names	Proteoglycan 2
Protein Family	Myelin basic protein
UniProt Gene Name	PRG2
UniProt Synonym Gene Names	MBP; BMPG; EMBP; MBP
NCBI Protein Information	bone marrow proteoglycan
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	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.
Research Articles on MBP	**1.** free protein in nasal mucus can be used as a biomarker to diagnose chronic rhinosinusitis
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