GBP5 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GBP5, Blocking Peptide
Full Product Name	GBP5 Antibody (N-term) Blocking Peptide
Product Gene Name	GBP5 blocking peptide
Product Synonym Names	Guanylate-binding protein 5; GBP-TA antigen; GTP-binding protein 5; GBP-5; Guanine nucleotide-binding protein 5; GBP5
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GBP5 peptide (MBS9222424) is used for blocking the activity of GBP5 antibody (MBS9213275)
Molecular Weight	55,247 Da
OMIM	611467
Cellular Location	Cytoplasm. Membrane; Lipid-anchor.
Related Product Information for GBP5 blocking peptide	MBS9222424 is a blocking peptide targeting GBP5. Also known as GBP5 Antibody (N-term) Blocking Peptide. Stimulates the NLRP3 inflammasome assembly upon bacterial challenge.
Other Notes	Small volumes of GBP5 blocking peptide 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 GBP5. It may not necessarily be applicable to this product.

NCBI GI #	37999757
NCBI GeneID	115362
NCBI Accession #	Q96PP8.1
UniProt Primary Accession #	Q96PP8
UniProt Secondary Accession #	Q86TM5; B2RCE1
UniProt Related Accession #	Q96PP8
NCBI Official Full Name	Guanylate-binding protein 5
NCBI Official Synonym Full Names	guanylate binding protein 5
NCBI Official Symbol	GBP5
NCBI Official Synonym Symbols	GBP-5
UniProt Protein Name	Guanylate-binding protein 5
UniProt Synonym Protein Names	GBP-TA antigen; GTP-binding protein 5; GBP-5; Guanine nucleotide-binding protein 5
Protein Family	Guanylate-binding protein
UniProt Gene Name	GBP5

UniProt Synonym Gene Names	GBP-5
UniProt Entry Name	GBP5_HUMAN
NCBI Protein Information	guanylate-binding protein 5
UniProt Comments for GBP5	GBP5: Stimulates the NLRP3 inflammasome assembly upon bacterial challenge. Belongs to the GBP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; Vesicle Chromosomal Location of Human Ortholog: 1p22.2 Cellular Component: membrane Molecular Function: identical protein binding; protein binding Biological Process: interleukin-1 beta secretion; positive regulation of innate immune response; protein homotetramerization
Research Articles on GBP5	**1.** GZMA, GBP5 and CD64 genes show promise as a rapid diagnostic markers separating tuberculosis from other pulmonary diseases.
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