Mannose Associated Serine Protease 2 (MASP2) ELISA Kit for Donkey

PRODUCT OVERVIEW

Product Name	Mannose Associated Serine Protease 2 (MASP2), ELISA Kit
Full Product Name	Donkey Mannose Associated Serine Protease 2 ELISA Kit
Product Gene Name	MASP2 elisa kit
Species Reactivity	Donkey
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	75,702 Da
OMIM	605102
3D Structure	ModBase 3D Structure for O00187
Related Product Information for MASP2 elisa kit	MBS096604 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Mannose Associated Serine Protease 2 (MASP2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MASP2. The ELISA analytical biochemical technique of the MBS096604 kit is based on MASP2 antibody-MASP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MASP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MASP2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MASP2 elisa kit 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 MASP2. It may not necessarily be applicable to this product.

NCBI GI #	21264363
NCBI GeneID	10747
NCBI Accession #	NP_006601.2
UniProt Primary Accession #	O00187
UniProt Secondary Accession #	O75754; Q5TEQ5; Q5TER0; Q96QG4; Q9BZH0; Q9H498; Q9H499; Q9UBP3; Q9UC48; A8K458; A8MWJ2
UniProt Related Accession #	O00187
GenBank Nucleotide #	NM_006610.3
NCBI Official Full Name	mannan-binding lectin serine protease 2 isoform 1 preproprotein
NCBI Official Synonym Full Names	mannan-binding lectin serine peptidase 2
NCBI Official Symbol	MASP2
NCBI Official Synonym Symbols	sMAP; MAP19; MASP-2; MASP1P1
UniProt Protein Name	Mannan-binding lectin serine protease 2
UniProt Synonym Protein Names	MBL-associated serine protease 2; Mannose-binding protein-associated serine protease 2

Protein Family	Mannan-binding lectin serine protease
UniProt Gene Name	MASP2
UniProt Synonym Gene Names	MASP-2
UniProt Entry Name	MASP2_HUMAN
NCBI Protein Information	mannan-binding lectin serine protease 2; small MBL-associated protein; MBL-associated serine protease 2; MBL-associated plasma protein of 19 kD; mannan-binding lectin serine protease 1 pseudogene 1; mannose-binding protein-associated serine protease 2; mannan-binding lectin serine peptidase 1 pseudogene 1
NCBI Summary for MASP2	The Ra-reactive factor (RARF) is a complement-dependent bactericidal factor that binds to the Ra and R2 polysaccharides expressed by certain enterobacteria. Alternate splicing of this gene results in two transcript variants encoding two RARF components that are involved in the mannan-binding lectin pathway of complement activation. The longer isoform is cleaved into two chains which form a heterodimer linked by a disulfide bond. The encoded proteins are members of the trypsin family of peptidases. [provided by RefSeq, Jul 2008]
UniProt Comments for MASP2	MASP2: Serum protease that plays an important role in the activation of the complement system via mannose-binding lectin. After activation by auto-catalytic cleavage it cleaves C2 and C4, leading to their activation and to the formation of C3 convertase. Defects in MASP2 are the cause of MASP2 deficiency (MASPD). MASPD is a disorder that results in autoimmune manifestations, recurrent severe infections, and chronic inflammatory disease. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Secreted; EC 3.4.21.104; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1p36.3-p36.2 Cellular Component: extracellular region Molecular Function: peptidase activity; protein binding; serine-type endopeptidase activity; complement component C4b binding; calcium ion binding; calcium-dependent protein binding Biological Process: innate immune response; proteolysis; complement activation, lectin pathway; complement activation, classical pathway; complement activation Disease: Masp2 Deficiency
Research Articles on MASP2	**1.** Data indicate that MASP-1 and MASP-2 can readily form heterodimers after dissociation and re-association, however, in the presence of Ca(2+) exchange of subunits is slow between the homodimers.
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