

Recombinant Human Mannan-binding lectin serine protease 1(MASP1)

Catalog No: #AP70533

Package Size: #AP70533-1 20ug #AP70533-2 100ug #AP70533-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Mannan-binding lectin serine protease 1(MASP1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:20-699aaSequence Info:Full Length
Other Names	Complement factor MASP-3 Complement-activating component of Ra-reactive factor Mannose-binding lectin-associated serine protease 1 Short name: MASP-1 Mannose-binding protein-associated serine protease Ra-reactive factor serine protease p100 Short name: RaRF Serine protease 5 Cleaved into the following 2 chains: Mannan-binding lectin serine protease 1 heavy chain Mannan-binding lectin serine protease 1 light chain
Accession No.	P48740
Calculated MW	93 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	HTVELNNMFGQIQSPGYPSDSEVTWNITVPDGFRIKLYFMHFNLESSYLCEYDYVKVETEDQVLATFCG RETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDAHYMAVDVDECKEREDEELSCDHYCHNYIGGY YCSCRFGYILHTDNRTCRVECDNLFTQRTGVITSPDFPNPYPKSSECLYTIEEFGFMVNLQFEDIFDIEDHPE VPCPYDYIKIKVGPKVLGPFCEGAPEPISTQSHSVLILFHSNDSNGENRGWRLSYRAAGNECPQLPPVHGKIE PSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKIPTCKIVDCRAPGELEHGLITFSTRNNLT TYKSEIKYSCQEPYYKMLNNNTGIYTCSAQGVWMNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGT TPWIAMLSHLNGQPFCEGSGLLGSSWIVTAAHCLHQSLDPEDPTLRDSDLLSPSDFKILGKHWRRLRSDENEQH LGVKHTTLHPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQQEGAMVIVSGWGKQLQRF PETLMEIEI PIVDHSTCQKAYAPLKKKVTDRMICAGEKEGGKDACAGDSGGPMVTLNRERGGQWYLVGT VSWGDDCGKKD RYGVYSYIHHNKDWIQRVTGVRN
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Functions in the lectin pathway of complement, which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5.

References

"Novel MASP1 mutations are associated with an expanded phenotype in 3MC1 syndrome."Atik T., Koparir A., Bademci G., Foster J. II, Altunoglu U., Mutlu G.Y., Bowdin S., Elcioglu N., Tayfun G.A., Atik S.S., Ozen M., Ozkinay F., Alanay Y., Kayserili H., Thiel S., Tekin M. Orphanet J. Rare Dis. 10:128-128(2015)Research Topic:Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.