10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MASP2 Rabbit pAb

Catalog # AP97127

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O00187
Other Accession	O00187
Reactivity	Rat, Human, Mouse
Predicted	Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75702
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MASP2
Epitope Specificity	351-450/686
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase S1 family.Contains 2 CUB domains.Contains 1 EGF-like domain.Contains 1 peptidase S1 domain.Contains 2 Sushi (CCP/SCR) domains.
SUBUNIT	Homodimer; disulfide-linked. Binds MBL2. Isoform 2 binds to MASP1. Binds SERPING1. Dimerization and MBL2 binding requires calcium ions.
Post-translational modifications	The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. Activated by cleavage after Arg-444. The uncleaved zymogen is inactive towards synthetic substrates, but has sufficient activity to effect autocatalytic cleavage.
DISEASE	Defects in MASP2 are the cause of MASP2 deficiency (MASPD) [MIM:613791]. MASPD is a disorder that results in autoimmune manifestations, recurrent severe infections, and chronic inflammatory disease.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the peptidase S1 family of serine proteases. The encoded preproprotein is proteolytically processed to generate A and B chains that heterodimerize to form the mature protease. This protease cleaves complement components C2 and C4 in order to generate C3 convertase in the lectin pathway of the complement system. The encoded protease also plays a role in the coagulation cascade through cleavage of prothrombin to form thrombin. Myocardial infarction and acute stroke patients exhibit reduced serum concentrations of the encoded protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Additional Information

Gene ID	10747

Other Names	MAP-2; MAP19; MASP-2; MASP1P1; sMAP; MASP2_HUMAN; MASP2; MBL-associated serine protease 2; Mannose-binding protein-associated serine protease 2 (MASP-2); 3.4.21.104; MBL associated serine protease 2; mannan-binding lectin serine protease 2; mannan-binding lectin serine peptidase 1 pseudogene 1; mannan-binding lectin serine protease 1 pseudogene 1; mannose-binding lectin-associated serine protease 2; mannose-binding lectin associated protein 19
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MASP2 {ECO:0000303|PubMed:9087411, ECO:0000312|HGNC:HGNC:6902}
Function	Precursor of a serum protease that activates the lectin pathway of the complement system, a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:11527969, PubMed:22691502). The lectin complement system is activated following association of lectins, such as MBL2, FCN1, FCN2 or FCN3, to carbohydrates on the pathogen surface (PubMed:22691502, PubMed:22966085). MASP2 is cleaved and activated by MASP1 in response to lectin-binding to pathogen carbohydrates (PubMed:10946292, PubMed:22949645, PubMed:22966085, PubMed:9087411). Can activate prothrombin to thrombin (PubMed:39924859).
Cellular Location	Secreted.
Tissue Location	Plasma..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.