



Rabbit Anti-Human MASP1 Polyclonal Antibody (CABT-L2079)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Mannose Associated Serine Protease 1 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against MASP1. It has been selected for its ability to recognize MASP1 in immunohistochemical staining and western blotting.
Target	MASP1
Immunogen	Recombinant fragment corresponding to human MASP1 (His25~Arg453)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]
Keywords	CRARF;PRSS5;Mannan-Binding Lectin Serine Peptidase 1;Ra-reactive factor serine protease p100;Complement-activating component of Ra-reactive factor;Serine protease 5

GENE INFORMATION

Gene Name	MASP1 mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) [Homo sapiens (human)]
Official Symbol	MASP1
Synonyms	MASP1; mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor); 3MC1; MAP1; MASP; RaRF; CRARF; MASP3; MAP44; PRSS5; CRARF1; mannan-binding lectin serine protease 1; serine protease 5; complement factor MASP-3; Ra-reactive factor serine protease p100; mannose-binding protein-associated serine protease; mannose-binding lectin-associated serine protease 1; complement-activating component of Ra-reactive factor;
Entrez Gene ID	5648
Protein Refseq	NP_001027019
UniProt ID	P48740
Chromosome Location	3q27-q28
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; Complement Activation, Classical

Pathway; Complement and Coagulation Cascades; Complement and coagulation cascades; Complement cascade; Creation of C4 and C2 activators; Ficolins bind to repetitive carbohydrate structures on the target cell surface; Immune System;

Function

calcium ion binding; calcium-dependent protein binding; peptidase activity; protein binding; protein homodimerization activity; serine-type endopeptidase activity;
