

Product Information

Recombinant Anti-Human masp2 Antibody

Cat. No.: **MOM-18433**

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

Product Overview

Recombinant Mouse Antibody binds selectively to Human MASP2, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

MASP2, MBL associated serine protease 2, is a serum protease that plays an important role in the activation of the complement system via mannose-binding lectin (MBL). Binding of MBL to carbohydrate groups triggers MASP2 activation by auto-catalytic cleavage which leads to cleavage of C2 and C4, leading to their activation and to the formation of C3 convertase. MASP2 also binds to L-Ficolin and H-Ficolin, and when the complex binds pathogens the MASP is activated. Low MBL levels in serum are associated with increased susceptibility to infection, and an Asp105Gly mutation in MASP2 is associated with low MASP2 levels in serum. Reduced functional levels of MBL are also postulated to be associated with generation of autoantibodies in systemic lupus erythematosus, acting through a decreased clearance of apoptotic material. A truncated form of MASP2 that constitutes the amino 185 residues, Map19 is also a component of the MBL-MASP-1 complex.

Specific Activity

Tested positive against native antigen.

Target

MASP2

Source

Mouse

Species Reactivity

Human

Type

IgG

Expression Host

CHO

Purity

>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Applications

Suitable for use in Neut, FuncS, ELISA, FC, WB and most other immunological methods.

Storage

Store at -20°C for long-term storage. Store at 2-8°C for up to one month. Avoid freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[MASP2 mannan-binding lectin serine peptidase 2 \[Homo sapiens \]](#)

Official Symbol

MASP2

Synonyms

MASP2; mannan-binding lectin serine peptidase 2; mannan binding lectin serine peptidase 1 pseudogene 1 , mannan binding lectin serine protease 1 pseudogene 1 , mannan binding lectin serine protease 2 , MASP1P1; 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; sMAP; MAP19; MASP-2; MASP1P1

Gene ID

[10747](#)

mRNA Refseq

[NM_006610](#)

Protein Refseq

[NP_006601](#)

MIM

[605102](#)

UniProt ID

O00187

Chromosome Location

1p36.3-p36.2

Pathway

Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Creation of C4 and C2 activators, organism-specific biosystem; Immune System, organism-specific biosystem; Initial triggering of complement, organism-specific biosystem;

Function

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