Product Name: MASP-2 Rabbit Polyclonal Antibody
Catalog #: APRab13655

Summary

Production Name	MASP-2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MASP2
Alternative Names	MASP2; Mannan-binding lectin serine protease 2; MBL-associated serine protease 2; Mannose-binding protein-associated serine protease 2; MASP-2
Gene ID	10747.0
SwissProt ID	O00187.The antiserum was produced against synthesized peptide derived from human MASP2. AA range:227-276

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	75kD

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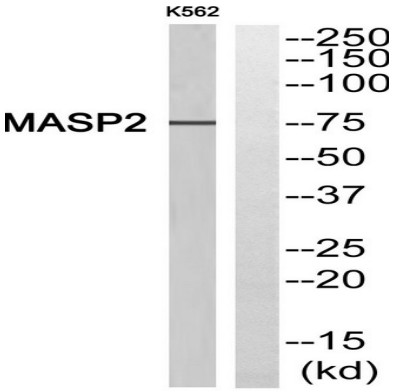
Background

mannan binding lectin serine peptidase 2(MASP2) Homo sapiens 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],catalytic activity:Selective cleavage after Arg-223 in complement component C2 (-Ser-Leu-Gly-Arg-|-Lys-Ile-Gln-Ile) and after Arg-76 in complement component C4 (-Gly-Leu-Gln-Arg-|-Ala-Leu-Glu-Ile).,disease:Genetic variation in MASP2 is the cause of MASP2 deficiency [MIM:605102]. It is associated with susceptibility to infections and with the development of immunologic disease.,function: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.,miscellaneous:Dimerization and MBL2 binding requires calcium ions.,online information:MASP2 mutation db,PTM:Activated by cleavage after Arg-444. The uncleaved zymogen is inactive towards synthetic substrates, but has sufficient activity to effect autocatalytic cleavage.,PTM:The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 2 CUB domains.,similarity:Contains 2 Sushi (CCP/SCR) domains.,subunit:Homodimer; disulfide-linked. Binds MBL2. Isoform 2 binds to MASP1. Binds SERPING1.,tissue specificity:Plasma.,

Research Area

Complement and coagulation cascades;

Image Data



Western blot analysis of MASP2 Antibody. The lane on the right is blocked with the MASP2 peptide.

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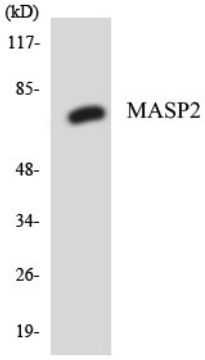
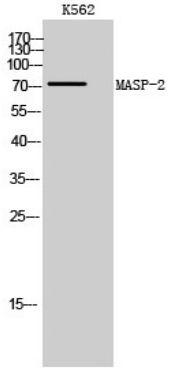


Western blot analysis of the lysates from HT-29 cells using MASP2 antibody.



Western Blot analysis of K562 cells using MASP-2 Polyclonal Antibody

Note

For research use only.