Best Tools for immunology Research

MASP-2 Polyclonal Antibody

Catalog No :	YT2656
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	MASP-2
Fields :	>>Complement and coagulation cascades;>>Staphylococcus aureus infection;>>Coronavirus disease - COVID-19
Gene Name :	MASP2
Protein Name :	Mannan-binding lectin serine protease 2
Human Gene Id :	10747
Human Swiss Prot No :	O00187
Mouse Swiss Prot No :	Q91WP0
Immunogen :	The antiserum was produced against synthesized peptide derived from human MASP2. AA range:227-276
Specificity :	MASP-2 Polyclonal Antibody detects endogenous levels of MASP-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 75kD

Cell Pathway : Complement and coagulation cascades;

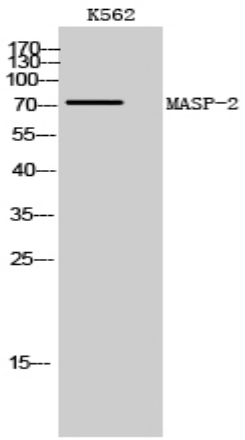
Background : mannan binding lectin serine peptidase 2(MASP2) Homo sapiens This gene encodes a member of the peptidase S1 family of serine proteases. The encoded preproprotein is proteolytically processed to generate A and B chains that heterodimerize to form the mature protease. This protease cleaves 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],

Function : 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 cl

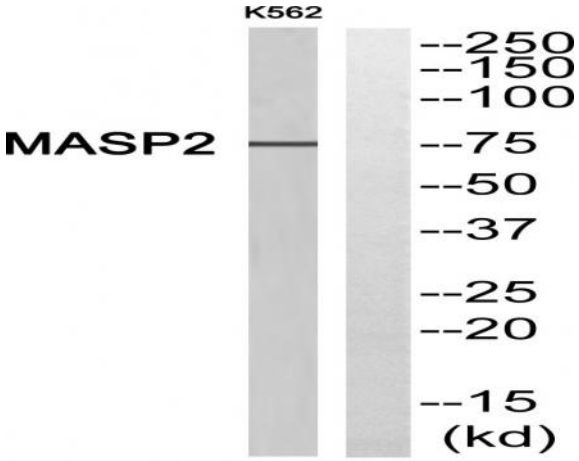
Subcellular Location : Secreted.

Expression : Plasma.

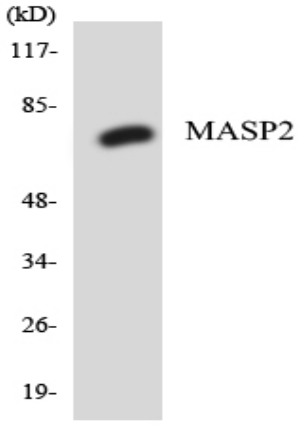
Products Images



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



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



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