Anti-MASP2 Antibody [F3-4]

M1501-11

Product Type:	Mouse monoclonal IgG2b, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: ~76kDa
Clone number:	F3-4

Description: Mannan-binding lectin serine protease 2 also known as mannose-binding protein-associated serine protease 2 (MASP-2) is an enzyme that in humans is encoded by the MASP2 gene. MASP-2 involved in the complement system. MASP-2 is very similar to the C1s molecule, of the classical complement pathway, and they are thought to have a common evolutionary ancestor. When the carbohydrate-recognising heads of MBL bind to specifically arranged mannose residues on the surface of a pathogen, MASP-2 is activated to cleave complement components C4 and C2 into C4a, C4b, C2a, and C2b.

Immunogen: Synthetic peptide within human MASP2 aa 335-379/686.

Positive control: Human serum

Subcellular location: Secreted

Database links: SwissProt: O00187 Human

Recommended Dilutions:

WB	1:2,000-1:5,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

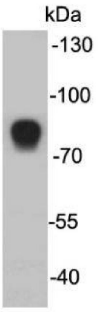

Fig1: Western blot analysis on human serum lysates using anti-MASP2 mouse mAb.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "The structure of MBL-associated serine protease-2 reveals that identical substrate specificities of C1s and MASP-2 are realized through different sets of enzyme-substrate interactions." Harmat V., Gal P., Kardos J., Szilagyi K., Ambrus G., Vegh B., Naray-Szabo G., Zavodszky P. J. Mol. Biol. 342:1533-1546(2004)
2. "A true autoactivating enzyme. Structural insight into mannose-binding lectin-associated serine protease-2 activations." Gal P., Harmat V., Kocsis A., Bian T., Barna L., Ambrus G., Vegh B., Balczer J., Sim R.B., Naray-Szabo G., Zavodszky P. J. Biol. Chem. 280:33435-33444(2005)
3. "Deficiency of mannan-binding lectin associated serine protease-2 due to missense polymorphisms." Thiel S., Steffensen R., Christensen I.J., Ip W.K., Lau Y.L., Reason I.J., Eiberg H., Gadjeva M., Ruseva M., Jensenius J.C. Genes Immun. 8:154-163(2007)