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Anti-MASP1 HC Antibody

Catalog # AP51330

Product Information

Application	WB, IF/IC
Primary Accession	P48740
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79247

Additional Information

Gene ID	5648
Other Names	CRARF; CRARF1; PRSS5; Mannan-binding lectin serine protease 1; Complement factor MASP-3; Complement-activating component of Ra-reactive factor; Mannose-binding lectin-associated serine protease 1; MASP-1; Mannose-binding protein-associated serine protease; Ra-reactive factor serine protease p100; RaRF; Serine protease 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MASP1 HC. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

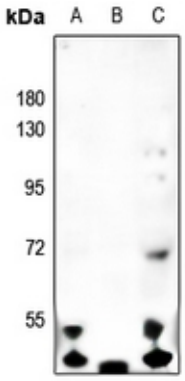
Protein Information

Name	MASP1 {ECO:0000303|PubMed:11290788, ECO:0000312|HGNC:HGNC:6901}
Function	Precursor of a serum protease that activates the complement pathway of the complement system, a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system.
Cellular Location	Secreted. [Isoform MASP-3]: Secreted
Tissue Location	Protein of the plasma which is primarily expressed by liver.

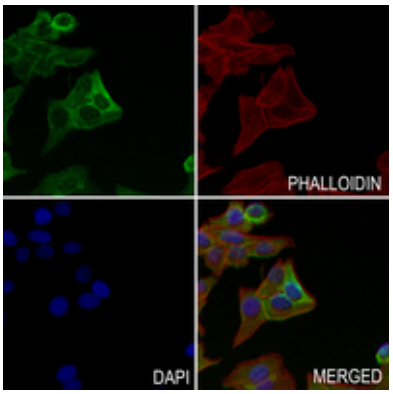
References

Takada F.,et al.Biochem. Biophys. Res. Commun. 196:1003-1009(1993).
Sato T.,et al.Int. Immunol. 6:665-669(1994).
Endo Y.,et al.Int. Immunol. 8:1355-1358(1996).
Takayama Y.,et al.Mol. Immunol. 36:505-514(1999).
Dahl M.R.,et al.Immunity 15:127-135(2001).

Images



Western blot analysis of MASP1 HC expression in LO2 (A), H9C2 (B), K562 (C) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 49 kD)



Immunofluorescent analysis of MASP1 HC staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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