

## MASP1 Rabbit Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP03542
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	100ul, 50ul, 20ul
<b>Immunogen</b>	Synthesized peptide derived from human MASP1 (light chain  Cleaved-Ile449)
<b>Mol wt</b>	76890
<b>Species reactivity</b>	Human, Rat, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	MASP1
<b>Synonyms</b>	MASP1 ;light chain; Cleaved-Ile449; Mannan-binding lectin serine protease 1; EC 3.4.21.-; 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; Mannan-binding lectin serine protease 1 heavy chain; Mannan-binding lectin serine protease 1 light chain;

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

enzyme regulation:Inhibited by SERPING1 and A2M.|Functions in the lectin pathway of complement| which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5.|PTM:Autoproteolytic processing of the proenzyme produces the active enzyme composed on the heavy and the light chain held together by a disulfide bond. Isoform 1 but not isoform 2 is activated through autoproteolytic processing.|PTM:N-glycosylated. Some N-linked glycan are of the complex-type.|PTM:The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.|Belongs to the peptidase S1 family.|Contains 1 EGF-like domain.|Contains 1 peptidase S1 domain.|Contains 2 CUB domains.|Contains 2 Sushi (CCP/SCR) domains.|subunit:Homodimer. Interacts with the oligomeric lectins MBL2| FCN2 and FCN3; triggers the lectin pathway of complement through activation of C3. Interacts with SERPING1.|tissue specificity:Protein of the plasma which is primarily expressed by liver.|

### Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

### Images

No images.

### Storage

-20°C for 1 year

