

ARG45341 anti-MASP1 antibody [4F19]

Package: 50 µg
Store at: -20°C

Summary

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| Product Description | Mouse Monoclonal antibody [4F19] recognizes MASP1 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 4F19 |
| Isotype | IgG2 |
| Target Name | MASP1 |
| Species | Human |
| Immunogen | Recombinant Human MASP1. |
| Conjugation | Un-conjugated |
| Alternate Names | MASP1; MBL Associated Serine Protease 1; Mannose-Binding Lectin-Associated Serine Protease 1; MASP-3; Map44; MAP-1; CRARF; PRSS5; MASP; Complement-Activating Component Of Ra-Reactive Factor; Mannose-Binding Protein-Associated Serine Protease; C4/C2 Activating Component Of Ra-Reactive Factor; Mannan Binding Lectin Serine Peptidase 1; Mannan-Binding Lectin Serine Protease 1; Ra-Reactive Factor Serine Protease P100; Complement Factor MASP-3; Serine Protease 5; CRARF1; RaRF; Mannan-Binding Lectin Serine Peptidase 1 (C4/C2 Activating Component Of Ra-Reactive Factor); Mannose-Associated Serine Protease 1; MASP-1; MASP3; 3MC1; MAP1; Complement MASP3 |

Application Instructions

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| Application table | Application | Dilution |
| | IHC-P | Assay-dependent |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

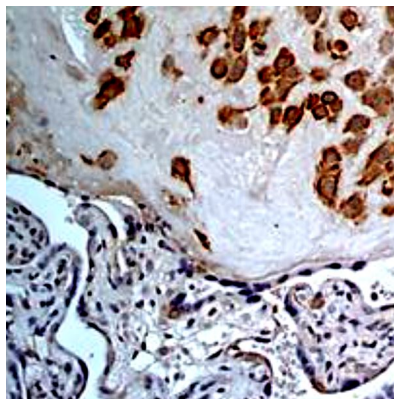
Properties

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| Form | Powder |
| Purification | Protein G chromatography |
| Buffer | PBS |
| Reconstitution | PBS |
| Concentration | 0.2 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Bioinformation

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| Gene Symbol | MASP1 |
| Gene Full Name | MBL Associated Serine Protease 1 |
| Background | <p>This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]</p> |
| Function | <p>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. Also plays a role in development. [UniProt]</p> |
| Calculated Mw | 79 kDa |
| PTM | Autocatalytic cleavage; Disulfide bond; Glycoprotein; Hydroxylation. [UniProt] |
| Cellular Localization | Secreted. [UniProt] |

Images



ARG45341 anti-MASP1 antibody [4F19] IHC-P image

Immunohistochemistry: Human placental stained with ARG45341 anti-MASP1 antibody [4F19].