

Human Complement Factor MASP3 Catalytic Domain Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF1724

| DESCRIPTION | | |
|----------------------------|--|---|
| Species Reactivity | Human | |
| Specificity | Detects human Complement Factor MASP3 Catalytic Domain in Western blots. | |
| Source | Polyclonal Goat IgG | |
| Purification | Antigen Affinity-purified | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human Complement Factor MASP3 Catalytic Domain Ile450-Val721 Accession # NP_624302 | |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details. | |
| APPLICATIONS | | |
| Please Note: Optimal dilut | tions should be determined by each laboratory for each applica | ation. General Protocols are available in the Technical Information section on our website. |
| | Recommended Concentration | Sample |
| Western Blot | 0.1 μg/mL | Recombinant Human Complement MASP3 Catalytic Domain (Catalog # 1724-SE) |
| PREPARATION AND | STORAGE | |
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. | |

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Stability & Storage

Shipping

MASP3 is a member of the MASPs involved in mannan-binding lectin (MBL) complement pathway (1). The MBL pathway is initiated by the binding of MBL to specific carbohydrate structures found on the surface of a variety of microorganisms. Activation of the complement pathway via MBL is initiated by specific MASPs. Three MASPs have been identified and all have domain structures similar to those of C1r and C1s with a heavy chain (chain A) and a light chain (chain B). Chain A is composed of CUB1, EGF, CUB2, CCP1 and CCP2 while chain B corresponds to the catalytic domain found in many serine proteases. MASP1 and MASP3 are two alternatively spliced products of a single gene, which contain the same A chains but entirely different B chains. Distinct MASPs found in different MBL oligomers may have different biological activities. For example, MASP3, found together with MASP2, downregulates the C4 and C2 cleaving activity of MASP2. The protease activity of MASP3 is first revealed here using rhMASP3CD (2), which is inhibited by serine protease inhibitors such as Ecotin and AEBSF (R&D Systems, Catalog # 1328-PI and El001).

References:

- 1. Dahl, M.R. et al. (2001) Immunity 15:127.
- 2. Cortesio, C.L. and W. Jiang (2006) Arch. Biochem. Biophys. 449:164.