Datasheet for ABIN2191969
anti-MASP1 antibody

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Overview

Quantity:	100 µg
Target:	MASP1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MASP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunoassay (IA)

Product Details

Clone:	2B11
Sterility:	0.2 µm filtered

Target Details

Target:	MASP1
Alternative Name:	Masp-1/3 (MASP1 Products)
Background:	Three pathways of complement activation have been reported: the antibody-dependent classical pathway, the antibody-independent alternative pathway and the lectin pathway. Activation of each pathway involves formation of serine protease complexes, which results in activation of the central complement component C3. In the lectin pathway, mannose binding-lectin (MBL)-associated serine proteases (MASP) form complexes with polymeric lectin molecules which are involved in pattern recognition. Upon binding of the recognition molecules

Target Details

	to carbohydrates on the surface of microorganisms, MASP are converted to their active forms and initiate complement activation. Three types of human MASP have been reported. MASP- 1, MASP-2 and MASP-3. MASP-1 appears to cleave the second complement component C2, but not C4. The proteolytic activities of MASP-1 are inhibited by C1-inhibitor. Furthermore MASP-1 has a reactivity profile very similar to that of thrombin. MASP-1 is able to catalyse the formation of cross-linked fibrin. Participation of MASP-1 in cross- linked fibrin clot formation causes release of a chemotactic factor representing a biologically significant activity of MASP-1. The alternative-splicing product from MASP-1 gene is called MASP-3. MASP-1 is associated with smaller MBL oligomers whereas MASP-3 is found on larger oligomers. The substrate of MASP-3 is unknown. The antibody recognizes the heavy chain common to both MASP-1 and MASP-3.
Pathways:	Complement System

Application Details

Application Notes:	For Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. The antibody does not work in Western blotting of reduced samples.
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.02 % sodium azide and 0.1 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.
Expiry Date:	12 months

Publications

Product cited in:	Nascimento, Sallé, Hoebeke, Argibay, Peineau: "cGMP-mediated inhibition of cardiac L-type Ca(2+) current by a monoclonal antibody against the M(2) ACh receptor." in: **American journal**

of physiology. Cell physiology, Vol. 281, Issue 4, pp. C1251-8, (2001) (PubMed).

Elies, Fu, Eftekhari, Wallukat, Schulze, Granier, Hjalmarson, Hoebeke: "Immunochemical and functional characterization of an agonist-like monoclonal antibody against the M2 acetylcholine receptor." in: **European journal of biochemistry / FEBS**, Vol. 251, Issue 3, pp. 659-66, (1998) (PubMed).

There are more publications referencing this product on: Product page

