

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	MASP-1, Human, clone 4H2A9		
Catalog number	HM2297		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #						1		
Yes						•		
No								
N.D.	•	•	•	•	•		•	•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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 1:50.

General Information

Description	The monoclonal antibody 4H2A9 reacts with the CCP1 domain, which is shared by MASP-1, MASP-3 and Map44. In total 5 MASP proteins have been identified (MASP-1, MASP-2, MASP-3, Map19 and Map44) which are encoded by 2 genes. The MASP-2 gene gives rise to MASP2 and Map19 due to alternative splicing, whereas the MASP-1 gene encodes a primary transcript which can be spliced to three different mRNAs coding for MASP-1, MASP-3 and Map44 having molecular weights of 88, 89 and 44kDa, respectively. On the protein level MASP-1 and MASP-2 are shown to be responsible for complement activation through proteolytic cleavage of C2 and C4, whereas MASP-3 has been suggested to inhibit the generation of the C3 convertase. So far the role of the truncated proteases Map44 and Map19 remain unknown. The monoclonal antibody 4H2A9 is suitable for western blotting and immunoprecipitation experiments. Moreover, the antibody can be used in immunoassays detecting MASP-1, MASP-3 and/or Map44.
Immunogen	CCP-1 domain of MASP-1.
References	1. Degn, S et al, Biological variations of MASP-3 and Map44, two splice products of the MASP1 gene involved in regulation of the complement system. J Immunol Meth 2010 361:37
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
16/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.