

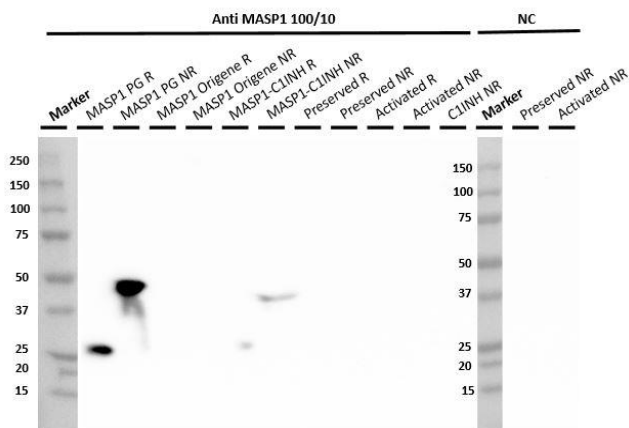
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	MASP-1, Human, clone 100/10		
Catalog number	HM2409-100UG		
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 #								
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



W: western blot with HM2409. Different MASP-1 sources and cross reactivity possibilities tested.

- 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.
- W: reduced and non-reduced western blot was performed. The expected band size for reduced is 15 and 30 kDa and for non-reduced 45 kDa. Longer exposure can show a band at ~150 kDa, which is MASP-1 in complex.
- IA: HM2409 can be used as detection antibody.
- FS: C3 deposition was not inhibited with antibody HM2409 in an experiment with lectin pathway activation with c3 deposition measurement.

General Information

Description

The anti MASP-1 monoclonal antibody clone 100/10 recognize the MASP-1 serine protease (SP) domain. Mannan-binding lectin serine protease 1 or mannan-associated serine protease 1 (MASP-1) is an enzyme that is encoded by the MASP1 gene. Three types of human MASP have been reported, MASP-1, MASP-2 and MASP-3. MASP-1 is a serine protease that functions as a component of the lectin pathway of the complement system. The lectin pathway can be activated by the pathogen recognition receptors (PRRs) collectins (such as MBL and collectin kidney 1 (CL-K1 or CL-11) or by ficolins (ficolin-1 or M-ficolin, ficolin-2 or L-ficolin, and ficolin-3 or H-ficolin). The PRRs recognize carbohydrate and acetylated residues on the surface of pathogens and altered cells. After binding, MASP-1 zymogen auto activates and transactivates MASP-2. MASP-2 further cleaves the C4 complement component, whereas both

MASP-1 and MASP-2 cleave C2. This leads to the formation of the C3 convertase (C4bC2b). The C3 convertase cleaves C3 leading to complement terminal pathway activation and thus mediating the destruction of infectious agents.

Immunogen	Recombinant MASP-1 catalytic fragment, containing non-glycosylated, renatured form of CCP1-CCP2-SP domains, produced in E.Coli
Cross reactivity	Not cross reactive with C1s, C1r, MASP-3 and C1-inhibitor
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
Brenda Teunissen

Date
06/09/2021

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