

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	MASP-2, Human, clone 8B5	<b>Expiry date</b>	-
<b>Catalog number</b>	HM2190-500UG	<b>Amount</b>	500 µg
<b>Lot number</b>	-	<b>Concentration</b>	>0.5 mg/ml
<b>Volume</b>	-	<b>Conjugate</b>	None
<b>Formulation</b>	0.2 µm filtered in PBS	<b>Purification</b>	Protein G
<b>Host Species</b>	Rat IgG1		
<b>Endotoxin</b>	N.A.		
<b>Storage</b>	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

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.

- IA: Antibody 8B5 can be used as coating antibody.

**General Information**

**Description** The monoclonal antibody 8B5 reacts with the CCP1/2-SP fragment of human MASP-2. MASP-2 is a trypsin-like serine protease and plays an important role in the initiation of the MBL complement activation pathway. 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 (MASPs) form complexes with polymeric lectin molecules which are involved in pattern recognition. Upon binding of the recognition molecules to carbohydrates on the surface of microorganisms, MASPs 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. Mannan-binding lectin (MBL) and ficolins, in complex with MBL-associated serine proteases (MASPs), are capable of activating the complement system, thus mediating the destruction of infectious agents. MASP-2 cleaves C4 and C2 and is crucial for the activation of downstream complement components.

**References** 1. Moller-Kristensen, M et al; Levels of mannan-binding lectin-associated serine protease-2 in healthy individuals. J Immunol 2003, 282: 159

**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  
05/11/2019

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).