

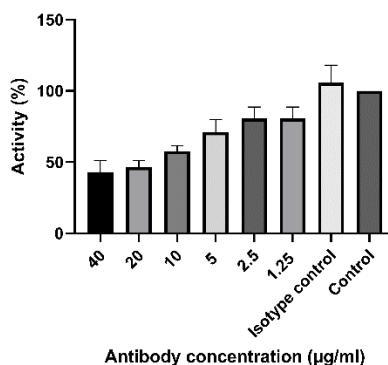
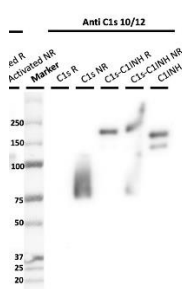
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	C1s, Human, clone 10/12		
Catalog number	HM2412-100UG		
Lot number	xxxxxXxxxx-X	Expiry date	MMM YYYY
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in TBS+0.1%BSA	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	<24 EU/mg	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: HM2412 recognizes only the C1s-C1-INH complex in Western blot, reduced and non-reduced. It does not recognize C1s.

FS: Classical inhibition by anti C1s antibody (HM2412)

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.

- IA: Antibody 10/12 can be used as detection antibody.
- W: Antibody 10/12 recognizes only the complex C1s-C1INH in western blot, both under reduced and non-reduced conditions. The expected band size is 150 - 196 kDa.
- FS: The inhibition of the classical pathway by HM2412, targeting C1s, was evaluated at varying concentrations using pooled human serum within the HK3010 human Classical Complement Pathway assay. An isotype control (MOPC-21, BioLegend) was also included to discern isotype-specific interactions. The pooled human serum served as a control.

General Information

Description

Antibody 10/12 recognizes human activated C1s, a molecule of the complement C1 complex and hence part of the component that initializes classical pathway activation. Upon recognition of immune complexes by C1q, C1r is autoactivated and subsequently activates C1s, which is then able to cleave C4 and C2, leading to the formation of the C3 convertase and further activation of the terminal pathway of the complement system. C1s deficiencies are associated with impaired function of the classical complement pathway. The zymogen form of C1s is a glycosylated single chain polypeptide with a MW of around 85kDa and the domain architecture CUB1-EGF-CUB2-CCP1-CCP2-SP, while activation through C1r leads to a 58kDa and a 27kDa chain, linked by disulfide bonds. Monoclonal antibody 10/12 is a murine IgG1 antibody directed against the CCP1-CCP2-SP domains of activated C1s and can detect human C1s in immunoassays.

Immunogen	Recombinant C1s catalytic fragment, containing non-glycosylated, renatured form of CCP1-CCP2-SP domains, produced in E.Coli		
Aliases	EDSPD2		
Cross reactivity	MASP-1, MASP-3, C1r, C1-inhibitor: No.		
Gene	Gene name: C1S	Uniprot: P09871	Entrez Gene ID: 716
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

Date

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