

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name Activated C3, Human, clone I3/15 Catalog number HM2257 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 4°C Storage

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 1:50.

- IA: adsorption of native C3 to a plastic surface can result in conformational modifications that may expose the antibody binding sites
 of the molecules.
- W: The antibody I3/15 recognizes native C3 after unfolding upon activation or after SDS treatment.

General Information

Description	The monoclonal antibody I3/15 recognizes activated complement protein C3, namely an neo-epitope on C3b, iC3b and C3dg which is not present in native C3. The antibody I3/15 recognizes native C3 after unfolding upon activation or after SDS treatment. C3 is a 190 kD protein that plays an important role in the complement activation cascade. The molecule is central to the classical, alternative and lectin pathways of complement activation. The synthesis of C3 is tissue-specific and is modulated in response to a variety of stimulatory agents. C3 is the most abundant protein of the complement system with serum protein levels of about 1.3 mg/ml. When activated, C3 is cleaved into two biologically active fragments known as C3a and C3b. C3a is a mediator of local inflammatory processes with anaphylatoxic properties. As such it induces smooth muscle contraction, increases vascular permeability, and causes histamine release from mast cells and basophilic leukocytes. C3b becomes attached to immune complexes and is further cleaved C3 (act. C3). The most important function of C3 fragments is the interaction of the complement system with other immune cells. Activation products of the complement cascade contain neo-epitopes that are not present in the individual native components. Monoclonal antibodies detecting neo-epitopes have been used for direct quantification of activation at different steps in the complement cascade.					
Aliases	C3, PZP-like alpha-2-macroglobulin domain-containing protein 1.					
References	 Oppermann, M et al; Quantitation of components of the alternative pathway of complement (APC) by enzyme- linked immunosorbent assays. J Immunol Methods 1990: <i>133</i>, 181 Oppermann, M et al; Elevated plasma levels of the immunosuppressive complement fragment Ba in renal failure. Kidney Int 1991: <i>40</i>, 939 Würzner, R et al; Complement activation and depletion during LDL-apheresis by heparin-induced extracorporeal LDL-precipitation (HELP). Eur J Clin Invest 1991: <i>21</i>, 288 Schuff-Werner, P et al; Heparin-induced extracorporeal LDL precipitation (HELP): rheological, hemostaseological and immunological effects. In Gotto, A et al; Treatment of severe hypercholesterolemia in the prevention of coronary heart disease, Basel, Karger 1990, <i>196</i> Zwirner, J et al; A novel ELISA for the assessment of classical pathway of complement activation in vivo by measurement of C4-C3 complexes. J of Immunol Meth 1995, <i>186</i>, 55 Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year. 					
Storage&Stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.					

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Approved by Manager of QC Robbert Zwinkels

Date 19/03/2018

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

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