

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	DAF, Pig, clone PD2	Expiry date	-
Catalog number	HM4014-20UG		
Lot number	-	Expiry date	-
Volume	200 µl	Amount	20 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 #				2	2	1		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.

- Positive control: Porcine platelet lysate.

General Information

Description	The monoclonal antibody PD2 recognizes pig complement decay accelerating factor (DAF), also designated as CD55. Cells express on their surface several proteins which protect against complement attack, namely C receptor I (CR1), decay accelerating factor (DAF), membrane cofactor protein (MCP) and CD59. CR1, DAF and MCP regulate the activation pathways of complement by either accelerating decay of the C3 and C5 convertase (CR1, DAF), or acting as cofactors for the serine protease factor I, which cleaves and irreversibly inactivates C3b (CR1, MCP). Pig DAF (CD55) is a 45-52 kDa transmembrane protein that binds C3b and C4b to inhibit formation and half-life of the C3 convertases. DAF is broadly distributed among cells in contact with serum, including both haematopoietic and nonhaematopoietic cells. Although DAF does not have an essential role in controlling hemolysis of erythrocytes, it has an important role in regulation of the deposition of C3 on nucleated cells. Together with other complement regulators DAF protects self-cells from autologous complement-mediated injury. DAF cooperates with CD46 in circumventing autologous C3 deposition, while CD59 inhibits the pathway at the critical end-point.
Immunogen	Pig DAF-Ig fusion protein
Aliases	Complement Decay Accelerating Factor, CD55
References	<ol style="list-style-type: none"> Harris, C et al; Efficient regeneration of monoclonal antibodies for specific protein domains using recombinant immunoglobulin fusion proteins: pitfalls and solutions. J Immunol Methods 2002, 268: 245 Perez de la Lastra, J et al; Pigs express multiple forms of decay-accelerating factor (CD55), all of which contain only three short consensus repeats. J Immunol 2000, 165:2563
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
13/01/2021

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