

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	C5L2, Human, pAb	Expiry date	-
Catalog number	HP9036-20UG		
Lot number	-	Amount	20 µg
Volume	200 µl	Concentration	100 µg/ml
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Conjugate	None
Host Species	Rabbit Ig	Purification	Protein G
Endotoxin	N.A.		
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

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.

General Information

Description The orphan receptor C5L2/pgpr77, which shares 35% amino identity with CD88, is a promiscuous complement fragment-binding protein. C5L2 binds C5a with high affinity but has a 10-fold higher affinity for C5adR than CD88. C5L2 also has an affinity for C4a and C3a, and their metabolites C4a des-Arg, and C3a des-Arg. C3a binds at a site distinct from the C5a binding site. C5L2 transfected into cells does not support degranulation or increases in intracellular [Ca²⁺] and is not rapidly internalized in response to ligand binding. However, ligation of C5L2 by anaphylatoxin potentiates the degranulation response to cross-linkage of the high affinity IgE receptor suggesting that C5L2 is an anaphylatoxin-binding protein with unique ligand binding and signalling properties. C5L2 is proposed to mediate the acylation-stimulating properties of C3a des-Arg/ASP. C5L2 is expressed in granulocytes, in mature dendritic cells, adipose tissue and fibroblasts.

- References**
- Cain, S et al; The orphan receptor C5L2 has high affinity binding sites for complement fragments C5a and C5a des-Arg. J Biol Chem 2002, 277: 7165
 - Kalant, D et al; The chemoattractant receptor-like protein C5L2 binds the C3a des-Arg77/acylation-stimulating protein. J Biol Chem 2003, 278: 11123
 - Ohno, M et al; A putative chemoattractant receptor, C5L2, is expressed in granulocyte and immature dendritic cells, but not in mature dendritic cells. Mol Immunol 2000, 37:407
 - Huber-Lang, M et al; Changes in the novel orphan, C5a Receptor (C5L2), during experimental sepsis and sepsis in humans. J Immunol 2005, 174: 1104
 - Purwar, R et al; Induction of C3 and CCL2 by C3a in keratinocytes: a novel autocrine amplification loop of inflammatory skin reactions. J Immunol 2006, 177: 4444

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
31/03/2021

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