

For Research Use Only

C5aR Polyclonal antibody

Catalog Number: 21316-1-AP

Featured Product

27 Publications



Basic Information

Catalog Number: 21316-1-AP	GenBank Accession Number: BC008982	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 728	Recommended Dilutions: WB 1:500-1:3000 IHC 1:200-1:800 IF 1:10-1:100
Source: Rabbit	Full Name: complement component 5a receptor 1	
Isotype: IgG	Calculated MW: 350 aa, 39 kDa	
Immunogen Catalog Number: AG15968	Observed MW: 45 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls: WB : L02 cells, PC-3 cells, U-937 cells IHC : human tonsillitis tissue, human lung tissue, human liver tissue IF : HepG2 cells,
Cited Applications: FC, IF, IHC, WB	
Species Specificity: human	
Cited Species: human, pig	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

C5aR, also named as CD88, is a G protein-coupled receptor for the anaphylatoxin C5a, a cleavage product of the complement cascade. The C5a ligand is a proinflammatory component of host defense. C5aR is activated upon binding of the C5a molecule. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production. The deduced sequence of C5aR contains 350 amino acids, giving a calculated molecular weight of 39 kDa. C5aR has an N-linked glycosylation site in the N-terminal extracellular domain. The apparent molecular weight of C5aR is about 40-52 kDa (PMID: 1847994; 9136907; 9136907; 2007135).

Notable Publications

Author	Pubmed ID	Journal	Application
Shi-Tao He	34670452	J Invest Surg	WB
Kun Zhang	31695787	Theranostics	WB
Duo Xu	36192575	Clin Transl Oncol	WB

Storage

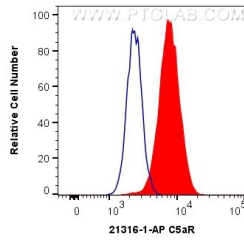
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

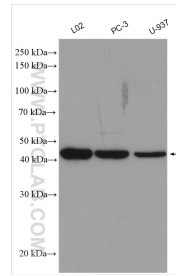
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

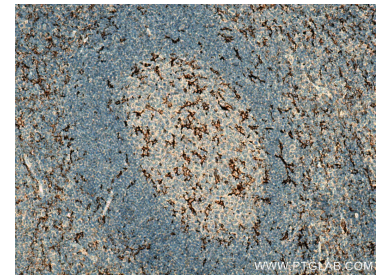
Selected Validation Data



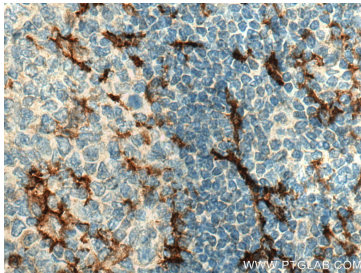
1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human C5aR (21316-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



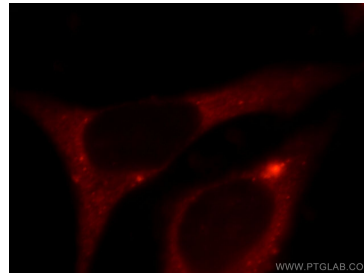
Various lysates were subjected to SDS PAGE followed by western blot with 21316-1-AP (C5aR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21316-1-AP (C5aR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21316-1-AP (C5aR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using C5AR1 antibody 21316-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).