

C5AR1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10701c**Specification**

C5AR1 Antibody (Center) - Product Information

Application	FC, WB,E
Primary Accession	P21730
Other Accession	NP_001727.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39336
Antigen Region	175-201

C5AR1 Antibody (Center) - Additional Information**Gene ID** 728**Other Names**

C5a anaphylatoxin chemotactic receptor 1, C5a anaphylatoxin chemotactic receptor, C5a-R, C5aR, CD88, C5AR1, C5AR, C5R1

Target/Specificity

This C5AR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-201 amino acids from the Central region of human C5AR1.

Dilution

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

C5AR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

C5AR1 Antibody (Center) - Protein Information**Name** C5AR1

Synonyms C5AR, C5R1

Function Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed:[10636859](#), PubMed:[15153520](#), PubMed:[1847994](#), PubMed:[29300009](#), PubMed:[7622471](#), PubMed:[8182049](#), PubMed:[9553099](#)). The ligand interacts with at least two sites on the receptor: a high- affinity site on the extracellular N-terminus, and a second site in the transmembrane region which activates downstream signaling events (PubMed:[7622471](#), PubMed:[8182049](#), PubMed:[9553099](#)). Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:[10636859](#), PubMed:[15153520](#)).

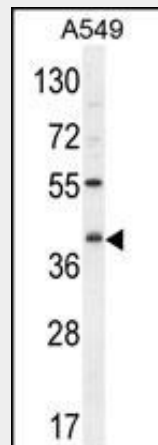
Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle. Note=Phosphorylated C5aR colocalizes with ARRB1 and ARRB2 in cytoplasmic vesicles

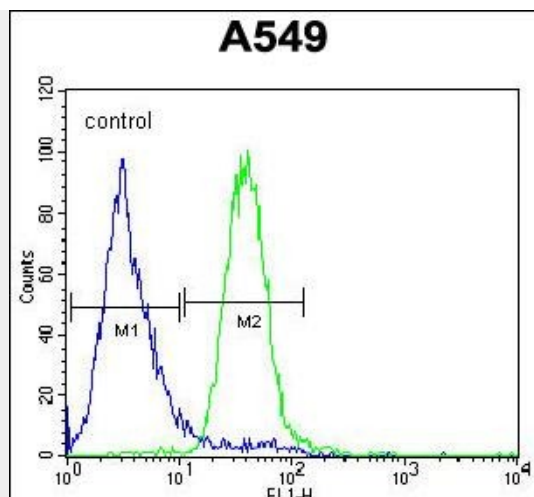
C5AR1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

C5AR1 Antibody (Center) - Images

C5AR1 Antibody (Center) (Cat. #AP10701c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the C5AR1 antibody detected the C5AR1 protein (arrow).



C5AR1 Antibody (Center) (Cat. #AP10701c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

C5AR1 Antibody (Center) - Background

Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. This receptor stimulates chemotaxis, granule enzyme release and superoxide anion production.

C5AR1 Antibody (Center) - References

- Skeie, J.M., et al. Invest. Ophthalmol. Vis. Sci. 51(10):5336-5342(2010)
- Nishiura, H., et al. Apoptosis 15(8):966-981(2010)
- Han, S., et al. Hum. Immunol. 71(7):727-730(2010)
- Marc, M.M., et al. Scand. J. Immunol. 71(5):386-391(2010)
- Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010)