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Anti-Complement C5aR1 Reference Antibody (avdoralimab)

Recombinant Antibody
Catalog # APR10081

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P21730
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	39336

Additional Information

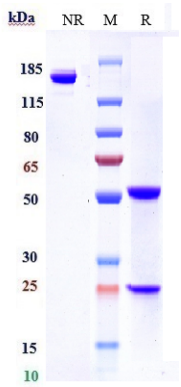
Target/Specificity	C5AR / C5AR1 /C5R1
Endotoxin Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

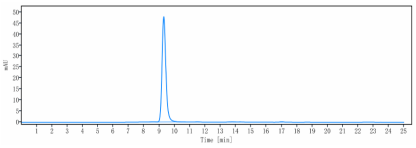
Name	C5AR1 {ECO:0000303|PubMed:37852260, ECO:0000312|HGNC:HGNC:1338}
Function	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a, stimulating chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859, PubMed:15153520, PubMed:1847994, PubMed:29300009, PubMed:36806352, PubMed:7622471, PubMed:8182049, PubMed:9553099). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:36806352, PubMed:37852260). C5AR1 is coupled to G(i)/G(o) (GNAI1 or GNAO1) G alpha proteins and mediates inhibition of adenylate cyclase (PubMed:36806352, PubMed:37852260). 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).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle. Note=Phosphorylated C5aR colocalizes with ARRB1 and ARRB2 in cytoplasmic

vesicles

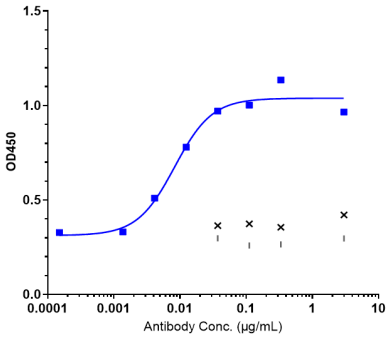
Images



Anti-Complement C5aR1 Reference Antibody (avdoralimab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-Complement C5aR1 Reference Antibody (avdoralimab) is 99.63%, determined by SEC-HPLC.



Immobilized human C5AR1 VLP at 16 ug/mL can bind Anti-Complement C5aR1 Reference Antibody (avdoralimab), EC50=0.008278 ug/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.