

ARG67013 anti-CD88 / C5AR1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD88 / C5AR1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD88 / C5AR1
Species	Human
Immunogen	Synthetic peptide corresponding a sequence within the N-term region of human CD88 / C5AR1.
Conjugation	Un-conjugated
Alternate Names	C5AR; C5R1; C5a anaphylatoxin chemotactic receptor 1; C5a anaphylatoxin chemotactic receptor; C5a-R; C5aR; CD88

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	40-45 kDa	

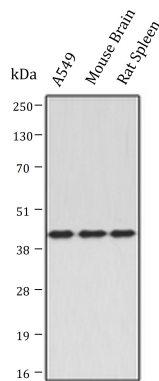
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.42% Potassium phosphate (pH 7.3), 0.87% NaCl, 0.01% Sodium azide and 30% Glycerol.
Preservative	0.01% sodium azide
Stabilizer	30% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	C5AR1
Gene Full Name	complement component 5a receptor 1
Background	Enables G protein-coupled receptor activity and complement component C5a receptor activity. Involved in several processes, including complement component C5a signaling pathway; mRNA transcription by RNA polymerase II; and positive regulation of ERK1 and ERK2 cascade. Located in apical part of cell and basolateral plasma membrane. Biomarker of Alzheimer's disease; asthma; chronic obstructive pulmonary disease; rhinitis; and severe acute respiratory syndrome. [provided by Alliance of Genome Resources, Apr 2022]
Function	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed:1847994, PubMed:8182049, PubMed:7622471, PubMed:9553099, PubMed:10636859, PubMed:15153520). 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:8182049, PubMed:7622471, PubMed:9553099). Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859, PubMed:15153520). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	39 kDa
PTM	Sulfation plays a critical role in the association of C5aR with C5a, but no significant role in the ability of the receptor to transduce a signal and mobilize calcium in response to a small a small peptide agonist (PubMed:11342590). Sulfation at Tyr-14 is important for CHIPS binding (PubMed:21706042). Phosphorylated on serine residues in response to C5a binding, resulting in internalization of the receptor and short-term desensitization to the ligand. The key residues involved in this process are Ser-334 and Ser-338.
Cellular Localization	Cell membrane; Cytoplasmic vesicle; Membrane

Images



ARG67013 anti-CD88 / C5AR1 antibody WB image

Western blot: A549, Mouse brain and Rat spleen whole cell lysates stained with ARG67013 anti-CD88 / C5AR1 antibody.