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Anti-CD88 Antibody

Catalog # AP95710

Product Information

Application	WB, FC
Primary Accession	P21730
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	39336

Additional Information

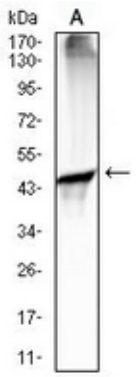
Gene ID	728
Other Names	C5AR; C5R1; C5a anaphylatoxin chemotactIC, receptor 1; C5a anaphylatoxin chemotactIC, receptor; C5a-R; C5aR; CD88
Target/Specificity	Recombinant fusion protein of human CD88 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

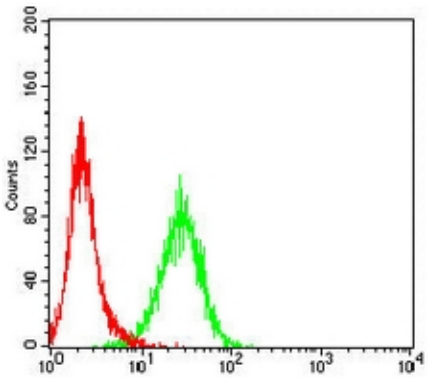
Name	C5AR1 {ECO:0000303|PubMed:37852260, ECO:0000312|HGNC:HGNC:1338}
Function	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a, stimulating chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859, PubMed:15153520, PubMed:1847994, 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



Western blot analysis of CD88 expression in mouse serum (A) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 45 kD)



Flow cytometric analysis of THP1 cells using Anti-CD88 Antibody (green) and negative control (red).

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