10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CD88 Polyclonal Antibody

Catalog # AP73893

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | P21730 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 39336 |

## Additional Information

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|---|---|
| **Gene ID** | 728 |
| **Other Names** | C5AR1; C5AR; C5R1; C5a anaphylatoxin chemotactic receptor; C5a-R; C5aR; CD88 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

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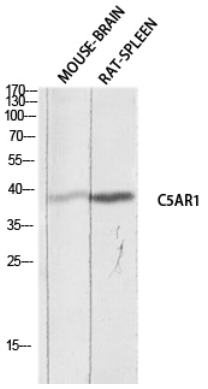
|---|---|
| **Name** | C5AR1 {ECO:0000303\|PubMed:37852260, ECO:0000312\|HGNC:HGNC:1338} |
| **Function** | Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a, stimulating chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859,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

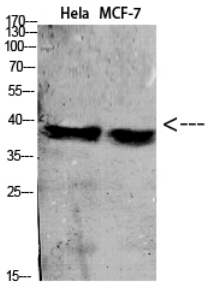
## Background

Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed: 1847994, PubMed:8182049, PubMed:7622471, PubMed:9553099, PubMed:10636859, PubMed:15153520, PubMed:29300009). 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).

## Images




Western blot analysis of MOUSE-BRAIN RAT-SPLEEN lysis using C5AR1 antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000




Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000

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