

## Rabbit anti-Human C5AR1 Monoclonal Antibody | anti-C5AR1 antibody

C5AR1 Rabbit PolymAb

|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA283077</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

C5AR1; Monoclonal Antibody; C5AR1 Rabbit PolymAb; C5A; C5AR; C5R1; CD88; anti-C5AR1 antibody

### PRODUCT SPECIFICATIONS

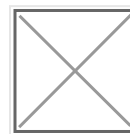
|                                                 |                                                                                                                  |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                           |
| Reactivity                                      | Human                                                                                                            |
| Clonality                                       | Monoclonal                                                                                                       |
| Isotype                                         | IgG                                                                                                              |
| Purity/Purification                             | Affinity purification                                                                                            |
| Form/Format                                     | PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.                                                     |
| Sequence                                        | MDSFNYYTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLGNALVVW VTAFEAKRTI<br>NAIWFLNLAV ADFLSCLALP ILFTSIVQHH |
| Applicable Applications for anti-C5AR1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                             |
| Cross Reactivity                                | Human, Mouse, Rat                                                                                                |
| Immunogen                                       | A synthetic peptide corresponding to a sequence within amino acids 1-100 of human C5AR1 (NP_001727.2).           |
| Preparation and Storage                         | Store at -20 degree C. Avoid freeze/thaw cycles.                                                                 |

### IMAGES



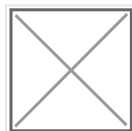
#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using C5AR1 Rabbit PolymAb® (AAA283077) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



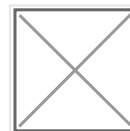
#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using C5AR1 Rabbit PolymAb® (AAA283077) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human lung squamous carcinoma tissue using C5AR1 Rabbit PolymAb® (AAA283077) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



#### WB (Western Blot)

Western blot analysis of various lysates using C5AR1 Rabbit PolymAb® (AAA283077) at 1:1000 dilution incubated overnight at 4°. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-C5AR1 antibody | 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. |
| Product Categories/Family for anti-C5AR1 antibody   | Cancer; Signal Transduction; G protein signaling; G-Protein-Coupled ReceptorsGPCR; Endocrine Metabolism; Immunology Inflammation; CD5; Cell Intrinsic Innate Immunity Signaling Pathway; Antibodies                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                            |                                               |
|----------------------------|-----------------------------------------------|
| NCBI GI #                  | 4502509                                       |
| NCBI GeneID                | 728                                           |
| NCBI Accession #           | NP_001727.1                                   |
| NCBI GenBank Nucleotide #  | NM_001736.3                                   |
| UniProt Accession #        | P21730                                        |
| Molecular Weight           | Calculated MW: 39kDa<br>Observed MW: 39-45kDa |
| UniProt Protein Name       | C5a anaphylatoxin chemotactic receptor        |
| UniProt Gene Name          | C5AR1                                         |
| UniProt Synonym Gene Names | C5AR; C5R1; C5a-R; C5aR                       |
| UniProt Entry Name         | C5AR_HUMAN                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/c5ar1-antibody-immunohistochemistry-western-blot-elisa/283077>