

Rabbit C5R1 Polyclonal Antibody | anti-C5R1 antibody

Phospho-C5R1 (Ser327) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329929	Rabbit	Human, Mouse Predicted Reactivity: Pig (89%), Bovine (89%), Sheep (89%), Rabbit (80%)	ELISA, Immunohistochemistry, Western Blot

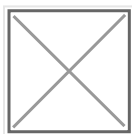
PRODUCT SYNONYMS

C5R1; Polyclonal Antibody; Phospho-C5R1 (Ser327) Antibody; ANAPHYLATOXIN RECEPTOR; C5a anaphylatoxin chemotactic receptor; C5a anaphylatoxin receptor; C5A; C5a ligand; C5a-R; C5aR; C5AR_HUMAN; c5ar1; CD88; CD88 antigen; Complement component 5 receptor 1; Complement component 5 receptor 2; Complement component 5a receptor 1; anti-C5R1 antibody

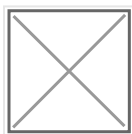
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (89%), Bovine (89%), Sheep (89%), Rabbit (80%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-C5R1 (Ser327) Antibody detects endogenous levels of C5R1 only when phosphorylated at Ser327.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-C5R1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human C5R1 around the phosphorylation site of Ser327.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	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. Sulfation at Tyr-14 is important for CHIPS binding. 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.
Subunit Structure	Homodimer. May also form higher-order oligomers. Interacts (when phosphorylated) with ARRB1 and ARRB2; the interaction is associated with internalization of C5aR. Interacts (via N-terminal domain) with S.aureus chemotaxis inhibitory protein (CHIPS); the interaction blocks the receptor and may thus inhibit the immune response.
Similarity	Belongs to the G-protein coupled receptor 1 family.
Subcellular Location	Cell membrane>Multi-pass membrane protein. Cytoplasmic vesicle. Note: Phosphorylated C5aR colocalizes with ARRB1 and ARRB2 in cytoplasmic vesicles.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human pancreatic cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of CD88 (Phospho-Ser327) using COLO205 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-C5R1 antibody	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. 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. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production.
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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	39,336 Da
NCBI Official Full Name	C5a anaphylatoxin chemotactic receptor
NCBI Official Synonym Full Names	complement component 5a receptor 1
NCBI Official Symbol	C5AR1
NCBI Official Synonym Symbols	C5A; C5AR; C5R1; CD88
NCBI Protein Information	C5a anaphylatoxin chemotactic receptor; C5a-R; C5a ligand; C5a anaphylatoxin receptor; complement component 5 receptor 1
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.

