

## Anti-Chemokine Receptor D6 antibody

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<b>Description</b>	Rabbit polyclonal to Chemokine Receptor D6.
<b>Model</b>	STJ92260
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA, IF
<b>Immunogen</b>	Synthesized peptide derived from human Chemokine Receptor D6
<b>Immunogen Region</b>	310-390 aa, C-terminal
<b>Gene ID</b>	<a href="#">1238</a>
<b>Gene Symbol</b>	<a href="#">ACKR2</a>
<b>Dilution range</b>	IF 1:200-1:1000ELISA 1:20000
<b>Specificity</b>	Chemokine Receptor D6 Polyclonal Antibody detects endogenous levels of Chemokine Receptor D6 protein.
<b>Tissue Specificity</b>	Found in endothelial cells lining afferent lymphatics in dermis and lymph nodes. Also found in lymph nodes subcapsular and medullary sinuses, tonsillar lymphatic sinuses and lymphatics in mucosa and submucosa of small and large intestine and appendix. Also found in some malignant vascular tumors. Expressed at high levels in Kaposi sarcoma-related pathologies. Expressed on apoptotic neutrophils (at protein level). Expressed primarily in placenta and fetal liver, and found at very low levels in the lung and
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Atypical chemokine receptor 2 C-C chemokine receptor D6 Chemokine receptor CCR-10 Chemokine receptor CCR-9 Chemokine-binding protein 2 Chemokine-binding protein D6
<b>Molecular Weight</b>	34 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:15650MIM:602648</a>
<b>Alternative Names</b>	Atypical chemokine receptor 2 C-C chemokine receptor D6 Chemokine receptor CCR-10 Chemokine receptor CCR-9 Chemokine-binding protein 2 Chemokine-binding protein D6
<b>Function</b>	Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines including CCL2, CCL3, CCL3L1, CCL4, CCL5, CCL7, CCL8, CCL11, CCL13, CCL17, CCL22, CCL23, CCL24, SCYA2/MCP-1, SCY3/MIP-1-alpha, SCYA5/RANTES and SCYA7/MCP-3. Upon active ligand stimulation, activates a beta-arrestin 1 (ARRB1)-dependent, G protein-independent signaling pathway that results in the phosphorylation of the actin-binding protein cofilin (CFL1) through a RAC1-PAK1-LIMK1 signaling pathway. Activation of this pathway results in up-regulation of ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation. By scavenging chemokines in tissues, on the surfaces of lymphatic vessels, and in placenta, plays an essential role in the resolution (termination) of the inflammatory response and in the regulation of adaptive immune responses. Plays a major role in the immune silencing of macrophages during the resolution of inflammation. Acts as a regulator of inflammatory leukocyte interactions with lymphatic endothelial cells (LECs) and is required for immature/mature dendritic cells discrimination by LECs.
<b>Sequence and Domain Family</b>	The C-terminal cytoplasmic tail controls its phosphorylation, stability, intracellular trafficking itinerary, and chemokine scavenging properties.
<b>Cellular Localization</b>	Early endosome. Recycling endosome. Cell membrane. Multi-pass membrane protein. Predominantly localizes to endocytic vesicles, and upon stimulation by the ligand is internalized via clathrin-coated pits. Once internalized, the ligand dissociates from the receptor, and is targeted to degradation while the receptor is recycled back to the cell membrane.
<b>Post-translational Modifications</b>	Phosphorylated on serine residues in the C-terminal cytoplasmic tail.

