

Recombinant Mouse Ackr2 Protein, Myc/DDK-tagged

Cat. No. Ackr2-1496M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length atypical chemokine receptor 2 (Ackr2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

interactions with lymphatic endothelial cells (LECs) and is required for immature/mature dendritic cells discrimination by LECs.

Molecular Mass	43.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	<i>Ackr2</i> atypical chemokine receptor 2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	<i>Ackr2</i>
Synonyms	<i>Ackr2</i> ; atypical chemokine receptor 2; D6; CCR9; Ccbp; CCR10; Ccbp2; Cmkbr9; AI464239; atypical chemokine receptor 2; C-C chemokine receptor D6; D6 beta-chemokine receptor; chemokine decoy receptor D6; chemokine-binding protein 2; chemokine-binding protein D6
Gene ID	59289
mRNA Refseq	NM_021609

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Protein Refseq NP_067622

UniProt ID O08707

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