

Recombinant Mouse Ackr1 Protein, Myc/DDK-tagged

Cat. No. Ackr1-1495M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length atypical chemokine receptor 1 (Duffy blood group) (Ackr1), 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. Has a promiscuous chemokine-binding profile, interacting with inflammatory chemokines of both the CXC and the CC subfamilies but not with homeostatic chemokines. Acts as a receptor for chemokines including CCL2, CCL5, CCL7, CCL11, CCL13, CCL14, CCL17, CXCL5, CXCL6, IL8/CXCL8, CXCL11, GRO, RANTES, MCP-1 and TARC. May regulate chemokine bioavailability and, consequently, leukocyte recruitment through two distinct mechanisms: when expressed in endothelial cells, it sustains the abluminal to luminal transcytosis of tissue-derived chemokines and their subsequent presentation to circulating leukocytes; when expressed in erythrocytes, serves as blood reservoir of cognate chemokines but also as a chemokine sink, buffering potential surges in plasma chemokine levels.

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Molecular Mass	36.7 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	Ackr1 atypical chemokine receptor 1 (Duffy blood group) [Mus musculus (house mouse)]
Official Symbol	Ackr1
Synonyms	Ackr1; atypical chemokine receptor 1 (Duffy blood group); Da; FY; Dfy; GPD; CCBP; Darc; CCBP1; CD234; ESTM3; ESTM35; AA162249; atypical chemokine receptor 1; Duffy antigen receptor for chemokines; Duffy blood group, chemokine receptor; duffy antigen/chemokine receptor; glycoprotein D
Gene ID	13349
mRNA Refseq	NM_010045
Protein Refseq	NP_034175

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UniProt ID

Q9QUI6

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