

Recombinant Human ACKR1 Protein, MYC/DDK-tagged

Cat. No. ACKR1-913H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human ACKR1 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.

Species Human

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, TARC and also for the malaria parasites *P.vivax* and *P.knowlesi*. 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. [UniProtKB/Swiss-Prot Function]

 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

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| Form | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol. |
| Molecular Mass | 35.4 kDa |
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration | >50 ug/mL as determined by microplate BCA method |

GENE INFORMATION

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|------------------------|---|
| Gene Name | atypical chemokine receptor 1 (Duffy blood group)[Homo sapiens] |
| Official Symbol | ACKR1 |
| Synonyms | CCBP1; CD234; DARC; Dfy; FY; GPD; GpFy; WBCQ1 |
| Gene ID | 2532 |
| Protein Refseq | NP_002027 |
| MIM | 613665 |

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