

Atypical chemokine receptor 1 (ACKR1) Recombinant Protein | ACKR1 recombinant protein

Recombinant Human Atypical chemokine receptor 1 (ACKR1)(Active)

CATALOG # AAA279389	HOST E coli (in vitro)
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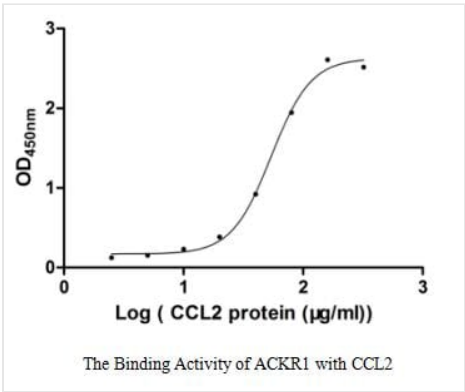
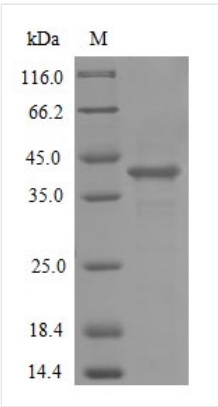
PRODUCT SYNONYMS

Atypical chemokine receptor 1 (ACKR1); Recombinant Human Atypical chemokine receptor 1 (ACKR1)(Active); Duffy antigen/chemokine receptor
glycoproteinShort name:GpFyGlycoprotein DPlasmodium vivax receptorCD_antigen: CD234DARC; FY; GPD; ACKR1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli (in vitro)
Purity/Purification	Greater than 85% as determined by SDS-PAGE.
Form/Format	Liquid or Lyophilized powder. If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Sequence	MGNCLHRAEL SPSTENSSQL DFEDVWNSSY GVNSFDPGD YGANLEAAAP CHSCNLLDDS ALPFFILTSV LGILASSTVL FMLFRPLFRW QLCPGWPVLA QLAVGSALFS IVVPVLAPGL GSTRSSALCS LGYCVWYGSA FAQALLGCH ASLGHRLGAG QVPGLTLGLT VGIWGVAAALL TLPVTLASGA SGGLCTLIYS TELKALQATH TVACLAIFVL LPLGLFGAKG LKKALGMGPG PWMNILWAWF IFWWPHGVVL GLDFLVRSL LLLSTCLAQQ ALDLLLNLAEL ALAILHCVAT PLLLALFCHQ ATRTLPLSLP LPEGWSSHLD TLGSKS
Sequence Length	1-336aa; Full Length
Species	Homo sapiens (Human)
Tag	N-terminal 10xHis-tagged
Transmembrane Domain	7TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized ACKR1 at 1ug/ml can bind human CCL2, the EC50 of human CCL2 protein is 48.64-60.24ug/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Bioactivity

ADDITIONAL INFORMATION

Related Product Information for ACKR1 recombinant protein	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.
Product Categories/Family for ACKR1 recombinant protein	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	171846251
NCBI GeneID	2532
NCBI Accession #	NP_001116423.1
NCBI GenBank Nucleotide #	NM_001122951.2
UniProt Accession #	Q16570; O75898; Q16300; Q8WWE3; Q9UJP0; Q9UKZ5; Q9UKZ6; Q9UQE1; A8YPG5
Molecular Weight	35,553 Da
NCBI Official Full Name	Duffy antigen/chemokine receptor isoform a
NCBI Official Synonym Full Names	Duffy blood group, chemokine receptor
NCBI Official Symbol	DARC
NCBI Official Synonym Symbols	FY; Dfy; GPD; GpFy; CCBP1; CD234; WBCQ1
NCBI Protein Information	Duffy antigen/chemokine receptor; glycoprotein D; Fy glycoprotein; Duffy blood group antigen; plasmodium vivax receptor
UniProt Protein Name	Duffy antigen/chemokine receptor
UniProt Gene Name	DARC

UniProt Synonym Gene Names	FY; GPD; GpFy
UniProt Entry Name	DUFFY_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.

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Online datasheet: <https://stage.aaabiotech.com/darc-recombinant-protein-e-coli/279389>