

Atypical chemokine receptor 2 (ACKR2) Recombinant Protein | ACKR2 recombinant protein

Recombinant Human Atypical chemokine receptor 2 (ACKR2)(Active)

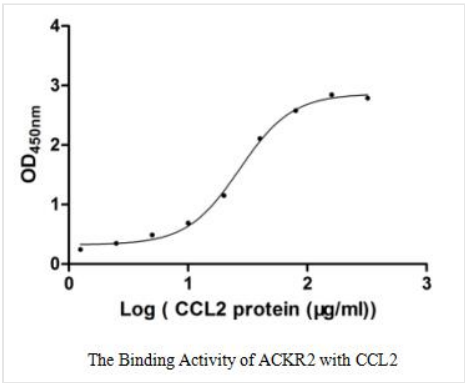
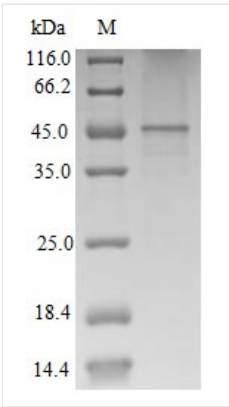
CATALOG # AAA279386	HOST E coli (in vitro)
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PRODUCT SYNONYMS

Atypical chemokine receptor 2 (ACKR2); Recombinant Human Atypical chemokine receptor 2 (ACKR2)(Active); C-C chemokine receptor D6Chemokine receptor CCR-10Chemokine receptor CCR-9Chemokine-binding protein 2Chemokine-binding protein D6CCBP2; CCR10; CMKBR9; D6; ACKR2 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	MAATASPQPL ATEDADSENS SFYYDYDLDE VAFMLCRKDA VVSFGKVFLP VFYSLIFVLG LSGNLLLLMV LLRYVPRRRM VEIYLLNLAI SNLLFLVTLP FWGISVAWHW VFGSFLCKMV STLYTINFYS GIFFISCMSL DKYLEIVHAQ PYHRLRTRAK SLLLATIVWA VSLAVSIPDM VFVQTHENPK GVWNCHADFG GHGTIWKLFL RFQQNLLGFL LPLLAMIFFY SRIGCVLVRL RPAGQGRALK IAAALVVAFF VLWFPYNLTL FLHTLLDLQV FGNCEVSQHL DYALQVTESI AFLHCCFSPI LYAFSSHRFR QYLKAFLAAV LGWHLAPGTA QASLSSCSES SILTAQEEMT GMNDLGERQS ENYPNKEDVG NKSA
Sequence Length	1-384aa; 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 ACKR2 at 1ug/ml can bind human CCL2, the EC50 of human CCL2 protein is 23.52-30.99ug/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.



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

Bioactivity

ADDITIONAL INFORMATION

Related Product Information for ACKR2 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. 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.
Product Categories/Family for ACKR2 recombinant protein	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	13929467
NCBI GeneID	1238
NCBI Accession #	NP_001287.2
NCBI GenBank Nucleotide #	NM_001296.4
UniProt Accession #	O00590; O00537; Q53YA1; Q86UN9; Q96A02; B2R8Y8
Molecular Weight	43,443 Da
NCBI Official Full Name	chemokine-binding protein 2
NCBI Official Synonym Full Names	chemokine binding protein 2
NCBI Official Symbol	CCBP2
NCBI Official Synonym Symbols	D6; hD6; CCR9; CCR10; CMKBR9
NCBI Protein Information	chemokine-binding protein 2; chemokine receptor D6; chemokine receptor CCR-9; C-C chemokine receptor D6; chemokine receptor CCR-10; chemokine (C-C) receptor 9; chemokine-binding protein D6; chemokine (C-C motif) receptor 9; CC-chemokine-binding receptor J

UniProt Protein Name	Chemokine-binding protein 2
UniProt Gene Name	CCBP2
UniProt Synonym Gene Names	CCR10; CMKBR9
UniProt Entry Name	CCBP2_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://www.aaabiotech.com/ccbp2-recombinant-protein-e-coli/279386>