



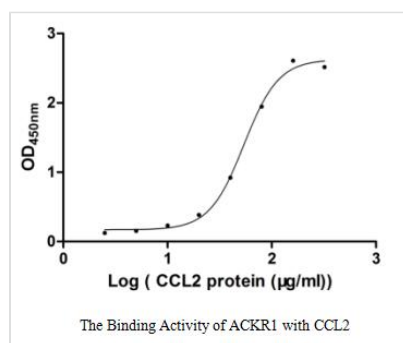
Recombinant Human Atypical chemokine receptor 1 (ACKR1) (Active)

Product Code	CSB-CF624105HU
Relevance	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.
Abbreviation	Recombinant Human ACKR1 protein (Active)
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q16570
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized ACKR1 at 1 µg/ml can bind human CCL2, the EC50 of human CCL2 protein is 48.64-60.24 µg/ml.
Purity	≥ 85% as determined by SDS-PAGE.
Sequence	MGNCLHRAELSPSTENSSQLDFEDVWNSSYGVNDSFPDGDYGANLEAAAPC HSCNLLDDSLPFFILTSVLGILASSTVLFMLFRPLFRWQLCPGWPVLAQLAVG SALFSIVVPVLAPGLGSTRSSALCSLGYCVWYGSAFAQALLGCHASLGHRLG AGQVPGLTLGLTVGIWGVAAALLTLPVTLASGASGGLCTLIYSTEKALQATHTV ACLAIFVLLPLGLFGAKGLKKALGMGPWPWMNILWAWFIFWWPHGVVGLDFL VRSKLLLLSTCLAQQALDLLLLNLAELAILHCVATPLLLALFCHQATRLLPSLPL PEGWSSHLDLTLGSKS
Research Area	Cardiovascular



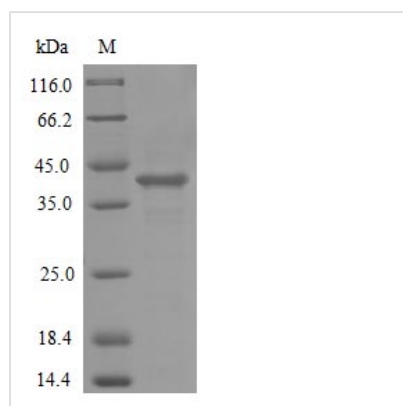
Source	in vitro E.coli expression system
Target Names	ACKR1
Expression Region	1-336aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	41.1 kDa
Protein Length	Full Length

Image



Activity

Measured by its binding ability in a functional ELISA. Immobilized ACKR1 at 1 µg/ml can bind human CCL2, the EC₅₀ of human CCL2 protein is 48.64-60.24 µg/ml.



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

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.