



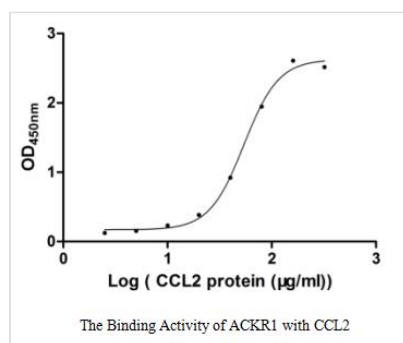
# Recombinant Human Atypical chemokine receptor 1 (ACKR1) (Active)

<b>Product Code</b>	CSB-CF624105HU
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant Human ACKR1 protein (Active)
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q16570
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	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.
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MGNCLHRAELSPSTENSSQLDFEDVWNSSYGVNDSFPDGDYGANLEAAAPC HSCNLLDDSALPFFILTSVLGILASSTVLFMLFRPLFRWQLCPGWPVLAQLAVG SALFSIVVPVLAPGLGSTRSSALCSLGYCVWYGSAFAQAALLGCHASLGHRLG AGQVPGLTLGLTVGIWGVAALLTLPVTLASGASGGLCTLIYSELKALQATHTV ACLAIFVLLPLGLFGAKGLKKALGMGPGPWMNILWAWFIFWWPHGVVLGLDFL VRSKLLLLSTCLAQQALDLLLLNLAEALAILHCVATPLLLALFCHQATRLLPSLPL PEGWSSHLDLTLGSKS
<b>Research Area</b>	Cardiovascular



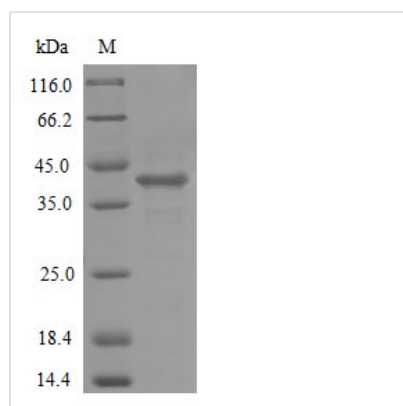
<b>Source</b>	in vitro E.coli expression system
<b>Target Names</b>	ACKR1
<b>Expression Region</b>	1-336aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged
<b>Mol. Weight</b>	41.1 kDa
<b>Protein Length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

### Image



#### Activity

Measured by its binding ability in a functional ELISA. Immobilized ACKR1 at 1 µg/ml can bind human CCL2, the EC<sub>50</sub> 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

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