

Product datasheet for **TP520989**

Ackr2 (NM_021609) Mouse Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse atypical chemokine receptor 2 (Ackr2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR220989 representing NM_021609 Red =Cloning site Green =Tags(s) |

MPTVASPLPLTTVGSSENSSSYDYDYLDDMTILVCRKDEVLSFGRVFLPVVYSLIFVLGLAGNLLLLLVL
LHSAPRRRTMELYLLNLAVSNLLFVVTMPFWAISVAWHVWVFGSFLCKVISTLYSINFYCGIFFITCMSLD
KYLEIVHAQPLHRPKAQFRNLLLIVMVWITSLAISVPPEMVFVQIHQTLDGVWHCYADFGGHATIWKLYLR
FQLNLLGFLLPLLAMIFFYSRIGCVLVRRLRPPGQGRALRMAAALVIVFFMLWFPYNLTLFLHSLDLHVF
GNCEISHRLDYTLQVTESLAFSHCCFTPVLVAFCSHRFRRLKAFSLVMLRWHQAPGTPSSNHSESSRVT
AQEDVSMNDLGERQSEDSLNGEMGNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|----------------|--|
| Tag: | C-MYC/DDK |
| Predicted MW: | 43.7 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C after receiving vials. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_067622 |
| Locus ID: | 59289 |
| UniProt ID: | Q08707 |



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| | |
|---------------|--|
| RefSeq Size: | 2900 |
| Cytogenetics: | 9 F4 |
| RefSeq ORF: | 1134 |
| Synonyms: | AI464239; Ccbp2; CCR9; CCR10; Cmkbr9; D6 |
| Summary: | <p>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.[UniProtKB/Swiss-Prot Function]</p> |