

RANTES-CCL5 active protein

Mouse RANTES-CCL5 Recombinant

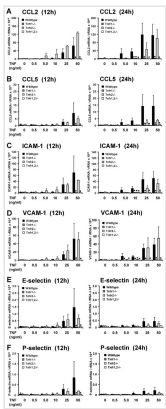
CATALOG #	HOST
AAA76394	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)

PRODUCT SYNONYMS

RANTES-CCL5; Mouse RANTES-CCL5 Recombinant; RANTES-CCL5 active protein

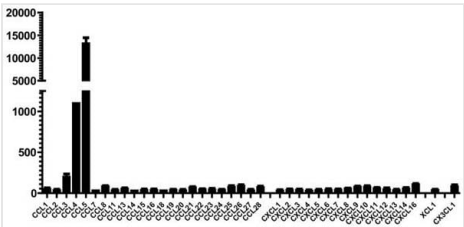
PRODUCT SPECIFICATIONS

Host	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant mouse RANTES/CCL5 was lyophilized from a 0.2 um filtered PBS solution.
Sequence	MKISAAALTI ILTAAALCTP APASPYGSDT TPCCFAYLSL ALPRAHVKEY FYTSSKCSNL AVVFVTRNR QVCANPEKKW VQEYINYLEM S
Source	Optimized DNA sequence encoding Mouse RANTES mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The ED(50) was determined by the ability to chemoattract human lymphocyte population using a concentration range of 0.0-10.0 ng/ml.
Method	Induction of ORMDL3 and CD48 expressionBM-derived eosinophils (1 × 10 ⁶ /well) were suspended in culture medium alone or medium containing IL-5, IL-3 (both from)ANTES-1 (& all at 100 ng/ml) or eotaxin-1 (100 nM) for 2 h at 37 degree C and 5% CO ₂ after which cells were analyzed for OML3 mRNA expression byT-PC and qPC. To evaluate CD48 mRNA expression, eosinophils were treated with IL-3 as described above. For protein expression, eosinophils were treated with IL-3 for 12 h and then examined for ORMDL3 and CD48 by Western blot analysis followed by densitometry using ImageJ (for ORMDL3).
Molecular Function	Cytokine
Biological Process	Chemotaxis, Inflammatory-response
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least years from date of receipt at-20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree -8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.



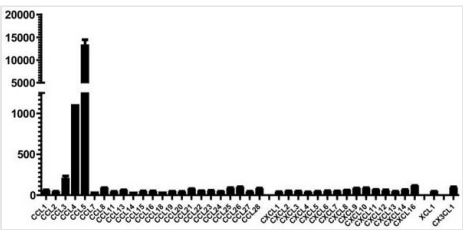
Application Data

Validation of the array expression pattern by quantitative RT-PCR. The mRNA levels of CCL2/MCP-1 , CCL5/RANTES , ICAM-1 , VCAM-1 , E-selectin , and P-selectin were determined by quantitative real-time PCR, and values were normalized to 18S rRNA as reference gene.



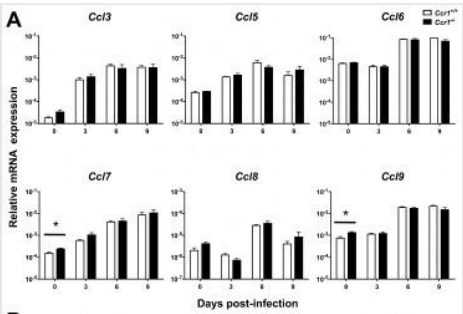
Application Data

Binding and in vitro activity of murine 18V4F hybridoma antibody.



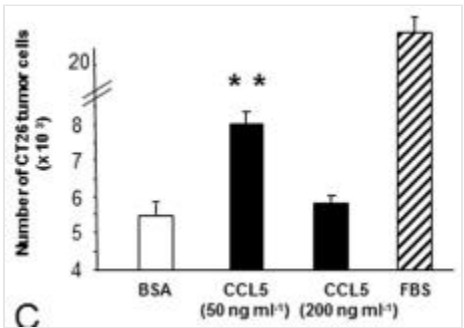
Application Data

Binding and in vitro activity of murine 18V4F hybridoma antibody. Chemotaxis inhibition by 18V4F hybridoma antibody of CCR5-transfected Ba/F3 cells to 5 ng/mL of CCL3, CCL4, and CCL5.



Application Data

Ccr1 ligands are induced after Candida infection and are chemotactic for kidney neutrophils ex vivo.



Application Data

CCL5-induced tumor-promoting properties in CRC cells. Proliferation of the CT26 and HT29 cells was assessed in response to a 5-day treatment with base medium alone (BSA, open bars), with serum-enriched medium (FBS, hatched bars) or with the indicated concentrations of recombinant CCL5 (filled bars), in the presence or in the absence of TAK-779 or anti-CCL5 antibodies (at the indicated concentrations).

ADDITIONAL INFORMATION

Product Categories/Family for RANTES- CCL5 active protein	Recombinant Mouse Cytokines; CCL chemokines
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164698428
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NCBI GeneID	20304
NCBI Accession #	NP_038681.2
NCBI GenBank Nucleotide #	NM_013653.3
UniProt Accession #	P30882
Molecular Weight	10,071 Da
NCBI Official Full Name	C-C motif chemokine 5
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 5
NCBI Official Symbol	Ccl5
NCBI Official Synonym Symbols	SISd; Scya5; RANTES; TCP228; MuRantes
NCBI Protein Information	C-C motif chemokine 5; SIS-delta; T-cell-specific protein RANTES; small inducible cytokine A5; small-inducible cytokine A5
UniProt Protein Name	C-C motif chemokine 5
UniProt Gene Name	Ccl5
UniProt Synonym Gene Names	Scya5
UniProt Entry Name	CCL5_MOUSE

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/e-coli-active-protein/rantes-ccl5/76394>