

## Recombinant Bos taurus C-C motif chemokine 20

Catalog No: #AP73104



Package Size: #AP73104-1 20ug #AP73104-2 100ug #AP73104-3 1mg

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## Description

Product Name	Recombinant Bos taurus C-C motif chemokine 20
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:27-96aaSequence Info:Full Length
Other Names	Macrophage inflammatory protein 3 alpha Short name: MIP-3-alpha Small-inducible cytokine A20
Accession No.	Q8SQB1
Uniprot	Q8SQB1
GeneID	281666;
Calculated MW	10.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	ASNFDCCLRYTERILHPSILVGFTQQLANEACDINAVVFYTRKKLAVCADPKKKWVKQVVHMLSQRVKRM
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Acts as a ligand for C-C chemokine receptor CCR6. Signals through binding and activation of CCR6 and induces a strong chemotactic response and mobilization of intracellular calcium ions. The ligand-receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector, memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and autoimmune diseases. CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes. Involved in the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation. Required for optimal migration of thymic natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells. Positively regulates sperm motility and chemotaxis via its binding to CCR6 which triggers Ca<sup>2+</sup> mobilization in the sperm which is important for its motility. May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells.

## References

"The role of chemokines in bovine respiratory syncytial virus infection."Neuenschwander S., Werling D.Research Topic:Others

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Note: This product is for in vitro research use only