

**Anti-Human MIP-3 $\alpha$  (RABBIT) Antibody Peroxidase Conjugated**  
**MIP-3 alpha Antibody Peroxidase Conjugated**  
**Catalog # ASR4952****Specification**

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**Anti-Human MIP-3 $\alpha$  (RABBIT) Antibody Peroxidase Conjugated - Product Information**

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	This purified antibody has been tested in western blotting and suitable for ELISA. By western blot a band approximately 11 kDa in size corresponding to human MIP-3 $\alpha$ protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	MIP-3 alpha Antibody Peroxidase Conjugated was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human MIP-3 $\alpha$ protein.
Reconstitution Volume	100 $\mu$ L
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Anti-Human MIP-3 $\alpha$  (RABBIT) Antibody Peroxidase Conjugated - Additional Information****Gene ID** 6364**Other Names**  
6364**Purity**

This Protein A purified antibody was heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human MIP-3 $\alpha$  in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.

**Storage Condition**

Store MIP-3 alpha Antibody Peroxidase Conjugated at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

#### **Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### **Anti-Human MIP-3 $\alpha$ (RABBIT) Antibody Peroxidase Conjugated - Protein Information**

**Name** CCL20

**Synonyms** LARC, MIP3A, SCYA20

#### **Function**

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 (PubMed:<a href="http://www.uniprot.org/citations/11035086" target="\_blank">11035086</a>, PubMed:<a href="http://www.uniprot.org/citations/11352563" target="\_blank">11352563</a>, PubMed:<a href="http://www.uniprot.org/citations/20068036" target="\_blank">20068036</a>). 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 various autoimmune diseases (PubMed:<a href="http://www.uniprot.org/citations/21376174" target="\_blank">21376174</a>). CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes (PubMed:<a href="http://www.uniprot.org/citations/11352563" target="\_blank">11352563</a>, PubMed:<a href="http://www.uniprot.org/citations/9038201" target="\_blank">9038201</a>). Involved in the recruitment of both the pro-inflammatory 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 (By similarity). C- terminal processed forms have been shown to be equally chemotactically active for leukocytes (PubMed:<a href="http://www.uniprot.org/citations/11035086" target="\_blank">11035086</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/23765988" target="\_blank">23765988</a>, PubMed:<a href="http://www.uniprot.org/citations/25122636" target="\_blank">25122636</a>). Inhibits proliferation of myeloid progenitors in colony formation assays (PubMed:<a href="http://www.uniprot.org/citations/9129037" target="\_blank">9129037</a>). May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells (By similarity). Possesses antibacterial activity towards E.coli ATCC 25922 and S.aureus ATCC 29213 (PubMed:<a href="http://www.uniprot.org/citations/12149255" target="\_blank">12149255</a>).

#### **Cellular Location**

Secreted.

#### **Tissue Location**

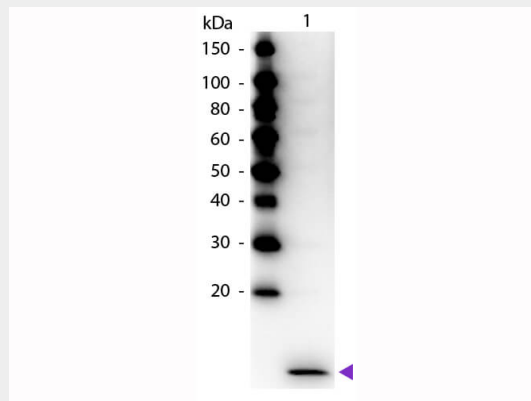
Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level). Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels seen in thymus, prostate, testis, small intestine and colon.

### **Anti-Human MIP-3 $\alpha$ (RABBIT) Antibody Peroxidase Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Anti-Human MIP-3 $\alpha$ (RABBIT) Antibody Peroxidase Conjugated - Images**



Western Blot of Peroxidase Conjugated Rabbit anti-MIP-3 $\alpha$  antibody. Lane 1: Human MIP-3 $\alpha$ . Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Peroxidase rabbit secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 11 kDa, 11 kDa for Human MIP-3 $\alpha$ . Other band(s): None.

#### **Anti-Human MIP-3 $\alpha$ (RABBIT) Antibody Peroxidase Conjugated - Background**

MIP-3 $\alpha$  (also known as C-C motif chemokine 20, small-inducible cytokine A20, macrophage inflammatory protein 3 alpha, MIP-3-alpha, liver and activation-regulated chemokine, CC chemokine LARC and beta chemokine exodus-1) is a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes. MIP-3 $\alpha$  inhibits proliferation of myeloid progenitors in colony formation assays and may be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells. C-terminal processed forms have been shown to be equally chemotactically active for leukocytes. MIP-3 $\alpha$  also possesses antibacterial activity against E.coli and S.aureus. MIP-3 $\alpha$  is a secreted protein that is expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels of expression are also seen in thymus, prostate, testis, small intestine and colon. C-terminal processed forms which lack 1, 3 or 6 amino acids are produced by proteolytic cleavage after secretion from peripheral blood monocytes. MIP-1 alpha Antibody Peroxidase Conjugated is useful for researchers interested in Cancer, Cell Biology and Immunology Research.