



# Anti-Mouse MIP-1 alpha

20150805BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P29</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (98%) recombinant murine MIP-1 $\alpha$ . Anti-murine specific antibody was purified by affinity chromatography employing immobilized murine MIP-1 $\alpha$  matrix.

## Target Background

<b>Synonyms (Target):</b>	Ccl3; Mip1a; Scya3; G0S19-1; AI323804; MIP1-(a); LD78alpha; MIP-1alpha; MIP1-alpha
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Both MIP-1  $\alpha$  and MIP-1  $\beta$  are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1  $\alpha$  and MIP-1  $\beta$  exert similar effects on monocytes their effect on lymphocytes differ; with MIP-1  $\alpha$  selectively attracting CD8+ lymphocytes and MIP-1  $\beta$  selectively attracting CD4+ lymphocytes. Additionally, MIP-1  $\alpha$  and MIP-1  $\beta$  have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1  $\alpha$  and MIP-1  $\beta$  are active on human and murine hematopoietic cells. Recombinant murine MIP-1  $\alpha$  is a 7.8 kDa protein containing 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

### Database References Target

<b>Protein RefSeq:</b>	NP_035467.1
<b>Uniprot ID:</b>	P10855
<b>mRNA RefSeq:</b>	NM_011337.2

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Mouse MIP-1 alpha
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

**ELISA:** To detect murine MIP-1 $\alpha$  by sandwich ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 - 2 µg/ml of this antibody is required. This antigen affinity purified antibody in conjugation with compatible secondary reagents allows the detection of 0.2-0.4 ng/well of recombinant murine MIP-1 $\alpha$ .

**Western Blot:** To detect murine MIP-1 $\alpha$  by Western-Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjugation with compatible secondary reagents the detection limit for recombinant murine MIP-1 $\alpha$  is 1.5-3.0 ng/lane under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**