

TECHNICAL DATA SHEET

Purified Rabbit Anti-rat MIP-1 α

Catalog Number: TP206

Lot Number: 032415

Content: Protein A purified rabbit IgG, 500 μ g, with 0.1% sodium azide, lyophilized.

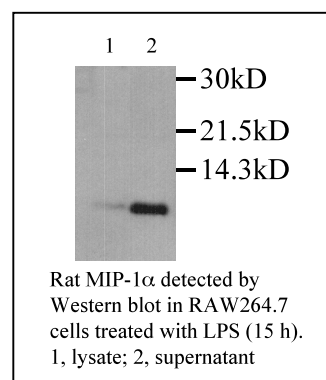
(Reconstitute to 1 mg/ml by adding 500 μ l H₂O)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with both mouse and rat MIP-1 α , was generated using *E. coli*-expressed amino acid 1-69 of mature rat MIP-1 α as an immunogen. This antibody can be used for Western blot (1:2,000), immunohistochemistry¹ (1:300) and neutralizing.²

Cross-reactivity to MIP-1 α of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: MIP-1 α (macrophage inflammatory protein-1 α) is a 69-amino acid CC chemokine with a molecular weight of 7.9 kDa^{1,2}. MIP-1 α induces migration of monocytes/macropages, B lymphocytes, activated CD8⁺ T cells, natural killer (NK) cells, eosinophils^{3,4}. MIP-1 α also stimulates basophils to release histamine, induces ICAM-1 expression, mast cell degranulation, and production of TNF α , IL-1 and IL-6. In



addition to its proinflammatory activities, MIP-1 α inhibits the proliferation of hematopoietic stem cells *in vitro* and *in vivo*.

References:

1. Anita M. Geppert. Constitutive patterns of RANTES, MCP-1 and MIP-1 α expression at the mRNA and protein level during postnatal development of the rat brain. *Folia Neuropathol.* 2003, 41(2): 79–88
2. Adamus G, et al. Expression of CC chemokines and their receptors in the eye in autoimmune anterior uveitis associated with EAE. *Invest Ophthalmol Vis Sci* 2001 42(12): 2894-2903

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