Anti-Rat GRO-beta (MIP-2)

20150223ML

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**104-P02**
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure recombinant Rat GRO-beta/MIP-2. Anti-Rat GRO-beta/MIP-2 specific antibody was purified by affinity chromatography employing immobilized Rat GRO-beta/MIP-2 matrix.

Target Background

Synonyms (Target):	Cxcl2; Mip-2; Scyb2

All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils. Recombinant rat GRO-β/MIP-2 is a 7.9 kDa protein consisting of 73 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

Database References Target

Protein RefSeq:	NP_446099
Uniprot ID:	P30348
mRNA RefSeq:	NM_053647

Product Specifications

Species reactivity	Rat
Clone/Ab feature	Rabbit IgG
Cross reactivity	Rat
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant rat GRO-beta/MIP-2
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. 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

Neutralization: To yield one-half maximal inhibition [ND_{50}] of the biological activity of Rat GROb/MIP-2 (100 ng/ml), a concentration of 3.0 – 5.0 µg/ml of this antibody is required.

ELISA: To detect Rat GROb/MIP-2 by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant Rat GROb/MIP-2.

Western Blot: To detect Rat GROb/MIP-2 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat GROb/MIP-2 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!