

Datasheet for 209-401-B97**MIP-1 beta Antibody****Overview**

Description:	Anti-Human MIP-1 β (RABBIT) Antibody - 209-401-B97
Item No.:	209-401-B97
Size:	100 μ g
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	MIP1 alpha and MIP1 beta were originally co-purified from medium conditioned by an LPS-stimulated murine macrophage cell line. Human MIP1 beta refers to the products of several independently cloned cDNAs, including Act2, PAT 744, hH400, G26, HIMAP, HC21, and MAD 5a. The predicted protein products of these cDNAs represent variants that are between 94% - 98% identical and these proteins are all approximately 75% homologous to murine MIP1 beta. MIP1 beta also shares approximately 70% amino acid identity with MIP1 alpha. MIP1 proteins are expressed primarily in T cells, B cells, and monocytes after antigen or mitogen stimulation. The MIP1 proteins have chemoattractant and adhesive effects on lymphocytes, with MIP1 alpha and MIP1 beta preferentially attracting CD8+ and CD4+ T cells, respectively. A signal transducing receptor designated the CC chemokine receptor 1 (CC CKR1) with seven transmembrane domains that binds MIP1 alpha, MIP1 beta, MCP1 and RANTES with varying affinities has been isolated.
Synonyms:	rabbit anti-MIP-1 beta Antibody, rabbit anti-MIP-1b Antibody, CCL4, C-C motif chemokine 4, Small-inducible cytokine A4, Macrophage inflammatory protein 1-beta, MIP-1-beta, ACT-2, T-cell activation protein 2, Protein H400, Lymphocyte activation gene 1 protein, LAG-1, HC21, G-26 T-lymphocyte-secreted protein, MIP-1 β
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CCL4
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Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant human MIP-1 β protein.
Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This purified antibody has been heated to 56°C for 30 minutes. In ELISA and other immunoreactive assays, this antibody will recognize both native and recombinant human IL-9 in cell supernatants and certain body fluids. A control of similarly diluted normal rabbit IgG is recommended.
Relevant Links:	• UniProtKB - P13236 • NCBI - NP_002975.1 • GeneID - 6351

Application Details

Tested Applications:	WB
Application Note:	This purified antibody has been tested in western blotting. Reactivity is also expected in ELISA, neutralizations, radioimmunoassay and immunohistochemistry. The endotoxin content is estimated to be <10 pg/ μ L by the LAL method. By western blot a band approximately 15 kDa in size corresponding to native human MIP-1 β protein is expected in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 μ L

Reconstitution Buffer: Restore with deionized water (or equivalent)

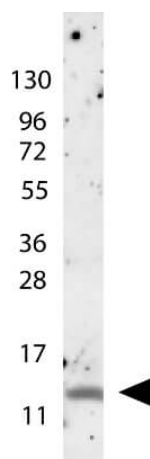
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Rockland's anti-Human MIP-1 β antibody shows detection of a band ~15 kDa in size corresponding to recombinant human MIP-1 β . Molecular weight markers are also shown (left). After transfer, the membrane was blocked overnight with 3% BSA in TBS followed by reaction with primary antibody at a 1:1,000 dilution. Detection occurred using peroxidase conjugated anti-Rabbit IgG (p/n 611-103-122) secondary antibody diluted 1:40,000 in blocking buffer (p/n MB-070) for 30 min at RT followed by reaction with FemtoMax™ chemiluminescent substrate. Image was captured using VersaDoc™ MP 4000 imaging system (Bio-Rad).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.