

Datasheet for 214-401-B85S**MIP-1 beta Antibody****Overview**

Description:	Anti-Swine MIP-1 β (RABBIT) Antibody - 214-401-B85S
Item No.:	214-401-B85S
Size:	25 μ L
Applications:	WB
Reactivity:	Pig
Host Species:	Rabbit

Product Details

Background:	In many species, both C-C chemokines macrophage inflammatory protein, or MIP-1 alpha (CCL3L1), and MIP-1 beta (CCL4) are structurally and functionally related CC chemokines. They are both potent chemoattractants for monocytes, which form an important component of the stroma of tumor tissue, and in humans may regulate tumor growth and associated inflammation. 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. Both MIP-1 alpha and MIP-1 beta exert similar effects on monocytes, but their effect on lymphocytes differ. MIP-1 alpha selectively attracts CD8+ lymphocytes, while MIP-1 beta selectively attracts CD4+ lymphocytes. They contain the four highly conserved cysteine residues present in CC chemokines. MIP-1 beta (CCL4) has specificity for CCR5 receptors. In humans, it is also a major HIV-suppressive factor produced by CD8+ T cells.
Synonyms:	rabbit anti-MIP 1 beta Antibody, rabbit anti-MIP-1b Antibody, rabbit anti-CCL4 antibody, CCL4, C-C motif chemokine 4, Small-inducible cytokine A4, Macrophage inflammatory protein 1-beta, MIP-1-beta, ACT-2, MIP-1 β
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CCL4
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Reactivity:	Pig
Immunogen Type:	Recombinant Protein
Immunogen:	This protein-A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with recombinant protein raised in yeast, corresponding to the 69 amino acids of the mature swine CCL4/MIP1 β protein.
Purity/Specificity:	This product was Protein-A purified from monospecific antiserum by chromatography. This antibody is specific for swine CCL4 protein. A BLAST analysis was used to suggest cross-reactivity with CCL4 from swine sources based on 100% homology with the immunizing sequence. Partial reactivity is expected against horse and panda CCL4 based on 90% homology. Cross-reactivity with CCL4 from other sources has not been determined. The swine CCL4 sequence is also 86% homologous to swine CCL3L1.
Relevant Links:	• UniProtKB - Q711P4 • NCBI - ABL74287 • GeneID - 396668

Application Details

Tested Applications:	WB
Application Note:	This protein-A purified MIP-1 β antibody has been tested by western blot and is suitable for ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 7.8 kDa in size corresponding to swine CCL4 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	>1:5,000
WB:	1:500

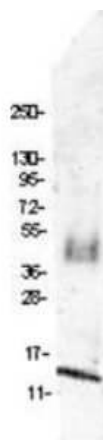
Formulation

Physical State:	Liquid (sterile filtered)
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:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is three (3) months from date of receipt.

Images



Western Blot

Western blot using Rockland's protein-A purified Anti-MIP-1 β (CCL4) antibody shows detection of recombinant swine MIP-1 β (CCL4) raised in yeast. The protein was purified and resolved by SDS-PAGE, then transferred to PVDF membrane. Membrane was blocked with 3% BSA (BSA-30, diluted 1:10), and probed with 4 µg/mL primary antibody overnight at 4°C. After washing, membrane was probed with IRDye800™ Conjugated Goat Anti-Rabbit IgG (p/n 611-132-122) at 1:20,000 for 45 min at room temperature.

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.