Datasheet for ABIN964800

anti-CCL4 antibody

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Overview

Quantity:	100 µg
Target:	CCL4
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CCL4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

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/MIP1ß protein. Immunogen Type: RecombinantProtein
Isotype:	IgG
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 98% homology, with bovine, dog, and rabbit based on 97% homology, macaque and feline based on 95%, with human and chimpanzee based on 94%, and with rat and opossum CCL4 based on 91% homology. Cross-reactivity with CCL4 from other sources has not been determined. The swine CCL4 sequence is also 86% homologous to swine CCL3L1.

Product Details

Characteristics:	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.
Purification:	purified
Sterility:	Sterile filtered

Target Details

Target:	CCL4
Alternative Name:	MIP 1 beta (CCL4 Products)
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: CCL4, C-C motif chemokine 4, Small-inducible cytokine A4, Macrophage inflammatory protein 1-beta, MIP-1-beta, ACT-2, MIP-1ß
Gene ID:	396668

Target Details

UniProt:	Q711P4

Application Details

Application Notes:	This protein-A purified antibody is suitable for ELISA and Western blotting. 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.
Comment:	Gene Name: CCL4
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 µL
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	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 date is one (1) year from date of opening.
Expiry Date:	12 months

Western Blotting

Image 1. Western blot using protein-A purified Anti-MIP-1ß (CCL4) antibody shows detection of recombinant swine MIP-1ß (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 Conjugated Goat Anti-Rabbit IgG at 1:20,000 for 45 min at room temperature.