CCL4/MIP1B Rabbit Recombinant **Oligoclonal Antibody – Purified**

Catalog no. 710016

(See product label for lot information)

Clone/PAD: Isotype: Gene ID: Protein Acc. no.: Qtv: Volume: **Concentration:**

C4HCLC lgG 6351 P13236 100 µg 200 µl 0.5 mg/mL

Formulation PBS + 0.09% sodium azide

Application For use in Western Blotting

Reactivity This antibody is specific for human CCL4

Immunogen Recombinant protein

Immunogen sequence Amino acids 24-92

Sequence Identity Human

Expected Reactivity

Based on sequence identity and similarity, reactivity to Human is expected.

Storage

2-8℃ for up to 1 month, -20℃ for long term storage. Avoid repeated freezing and thawing.

Expiration Date

Expires one year from date of receipt when stored as instructed.

Background

CCL4 (Chemokine (C-C motif) ligand 4), also known as Macrophage inflammatory protein-1ß (MIP-1ß) is a CC chemokine with specificity for CCR5 receptors. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells (1-3). This was originally co-purified from medium conditioned by an LPS-stimulated murine macrophage cell line. It also induces the synthesis and release of other pro-inflammatory cytokines such as interleukin 1 (IL-1), IL-6 and TNF-α from fibroblasts and macrophages. The genes CCL4 is located on human chromosome 17g (4).

References

- (1) Kamin-Lewis R, Abdelwahab SF, Trang C, Baker A, DeVico AL, Gallo RC, Lewis GK (2001). "Perforin-low memory CD8+ cells are the predominant T cells in normal humans that synthesize the beta -chemokine macrophage inflammatory protein-1beta". Proc. Natl. Acad. Sci. U.S.A. 98 (16): 9283-8.
- (2) Irving SG, Zipfel PF, Balke J, McBride OW, Morton CC, Burd PR, Siebenlist U, Kelly K (1990). "Two inflammatory mediator cytokine genes are closely linked and variably amplified on chromosome 17q". Nucleic Acids Res. 18 (11): 3261-70.
- (3) Bystry RS, Aluvihare V, Welch KA, Kallikourdis M, Betz AG (2001). "B cells and professional APCs recruit regulatory T cells via CCL4". Nat. Immunol. 2 (12): 1126-32.
- (4) Irving, Zipfel PF, Balke J, McBride OW, Morton CC, Burd PR, Siebenlist U, Kelly K (1990). Two inflammatory mediator cytokine genes are closely linked and variably amplified on chromosome 17q. Nucleic Acids Res. 18: 3261-3270, 1990.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

Applications:

	Species	Test Material	Concentration
Western Blotting	Mouse	RAW264.7 + LPS	4-5 μg/ml

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Western Blot of CCL4 labeled with CCL4 Rabbit Recombinant Oligoclonal Antibody (Cat. No. 710016).

CCL4 Rabbit Recombinant Oligoclonal Antibody (5 μ g/ml) was used to label CCL4 in LPS stimulated RAW264.7 Cell Lysate (30 μ g/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No.WB7105).

Symbol	Description	Symbol	Description
REF	Catalogue Number	LOT	Batch code
RUO	Research Use Only	IVD	In vitro diagnostic medical device
X	Use by	ł	Temperature limitation
** *	Manufacturer	EC REP	European Community authorised representative
[-]	Without, does not contain	[+]	With, contains
from Light	Protect from light	Â	Consult accompanying documents
i	Directs the user to consult instructions for use (IFU), accompanying the product.		

Explanation of symbols

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