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Polyclonal Anti- MCP4 Picoband™ Antibody

Catalog Number: PB9030

Description

Gene Name	chemokine (C-C motif) ligand 13
Recommended Protein Name	C-C motif chemokine 13
Lot No.	0901412Da793077
Size	100μg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	**Reacts with:** human
Immunogen	E. coli-derived human MCP4 recombinant protein (Position: Q24-T98).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5μg/ml	Hu	-
ELISA	0.1-0.5μg/ml	Hu	-

WB: The detection limit for MCP4 is approximately 0.25ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage: At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time.
Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

Chemokine (C-C motif) ligand 13 (CCL13) is a small cytokine belonging to the CC chemokine family. Its gene is located on human chromosome 17 within a large cluster of other CC chemokines. CCL13 induces chemotaxis in monocytes, eosinophils, T lymphocytes, and basophils by binding cell surface G-protein linked chemokine receptors such as CCR2, CCR3 and CCR5. Activity of this chemokine has been implicated in allergic reactions such as asthma. CCL13 can be induced by the inflammatory cytokines interleukin-1 and TNF-α.

Reference

1. Garcia-Zepeda EA, et al.. Human monocyte chemoattractant protein (MCP)-4 is a novel CC chemokine with activities on monocytes, eosinophils, and basophils induced in allergic and no allergic inflammation that signals through the CC chemokine receptors (CCR)-2 and -3. J Immunol. 1996;157:5613–5626
2. Naruse et al., A YAC contig of the human CC chemokine genes clustered on chromosome 17q11.2. Genomics. 1996, 34(2):236-40.
3. Blanpain et al., CCR5 binds multiple CC-chemokines: MCP-3 acts as a natural antagonist. Blood. 1999, 94:1899-905.
4. Lamkhioued et al., Monocyte chemoattractant protein (MCP)-4 expression in the airways of patients with asthma. Induction in epithelial cells and mononuclear cells by proinflammatory cytokines. Am J Respir Crit Care Med. 2000, 162:723-32.