

Rabbit anti-human Chemokine (C-C motif) ligand 18 (CCL18) monoclonal antibody, clone 6E12

Catalog Number: R16001ME12



General Information

Immunogen	Full length recombinant human CCL18 protein
IgG type	Rabbit IgG
Clonality	monoclonal
Affinity	2.41×10^{-10} M
Applications	TIA, ELISA, WB
Pairing antibody	R16001MF13, R16001MB19
Specificity	Human CCL18, minimum cross reactivity to other CC chemokines
Formulation	0.22 μ M filtered solution of PBS, pH 7.4
Purity	> 95% determined by SDS-PAGE
Storage	≤ -20 °C for 1 year or 4 °C for 6 weeks

Abbreviations:

ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;

Background

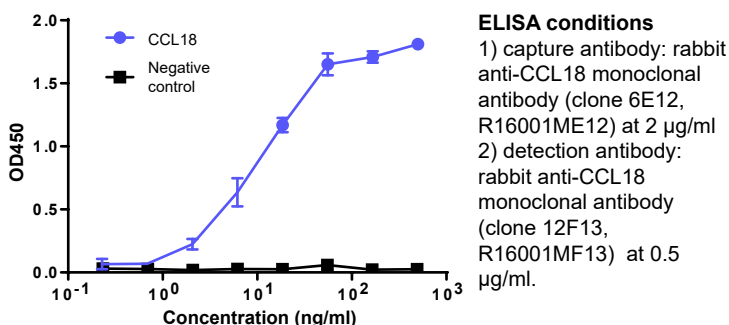
Chemokine (C-C motif) ligand 18 (CCL18) is a 69 amino acid residue cytokine matured from an 89 amino acid precursor protein found only in human. It belongs to the CC chemokine family, with putative molecular weight of 7.8 KD. Its synonyms are PARC, DC-CK1, AMAC-1, and MIP-4. CCL18 is produced majorly by antigen-presenting dendritic cells, monocytes, and macrophages. Its production is regulated by IFN-gamma, IL-10, IL-4, and IL-13. Recently three receptors have been characterized for CCL18: PITPNM3, GPR30, and CCR8. CCL18 primarily regulates recruitment of the adaptive immune system and attracts lymphocytes including T cells, B cells, and dendritic cells. It is involved into fibrotic lung diseases, allergy, autoimmune diseases, breast cancer, and acute lymphocytic leukemia.

Preparation

Monoclonal antibody is produced by immunizing rabbit with full length recombinant human CCL18 and purified using protein A resin.

Application

Sandwich ELISA



Suggested pairs

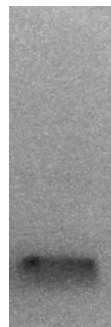
Capture antibody	Detection antibody
R16001ME12	R16001MG18, R16001MB19, R16001MF13

Western blot

56 KD -
40 KD -
33 KD -
24 KD -

17 KD -

10 KD -



Western blot conditions

Lane: recombinant human CCL18 protein at 20 ng per lane.
 Antibody concentration: 1 μ g/ml

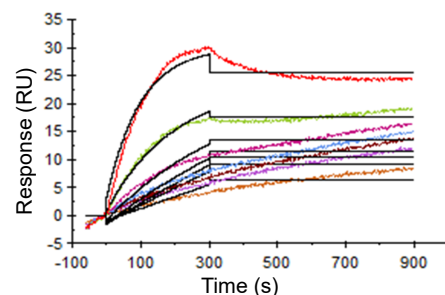
Blocking and antibody dilution buffer is 5% skim milk (w/v), 1x TBS, 0.05% Tween-20.

Affinity

K_{on} : 1.46×10^5 /Ms

K_{off} : 4.07×10^{-5} /s

KD: 2.41×10^{-10} M



Research Use or Further Manufacturing Only

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18 (CCL18) monoclonal antibody, clone 6E12**

Catalog Number: R16001ME12



Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

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