

Product datasheet

Anti-MDC antibody (Biotin) ab83129

Overview

Product name	Anti-MDC antibody (Biotin)
Description	Rabbit polyclonal to MDC (Biotin)
Conjugation	Biotin
Tested applications	Suitable for: WB, ELISA, Sandwich ELISA
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length Human MDC protein, highly pure (>98%).

Properties

Form	Lyophilised:Reconstitute in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: None Constituents: PBS, pH 7.2
Purity	IgG fraction
Purification notes	ab83129 was purified by affinity chromatography and then biotinylated. Filter Sterilised.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab83129** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 11 kDa. Detection limit for recombinant hMDC is 1.5 - 3 ng/lane, under either reducing or non-reducing conditions.
ELISA		Use a concentration of 0.25 - 1 µg/ml. Can detect 0.2 - 0.4 ng/well of recombinant hMDC.

Sandwich
ELISA

Use a concentration of 0.25 - 1 µg/ml.

In sandwich ELISA, this antibody can be used as the detection antibody along with either [ab9847](#) or [ab9857](#) as the capture antibody to detect at least 0.2 - 0.4 ng/well of recombinant hMDC.

Target

Function

May play a role in the trafficking of activated/effector T-lymphocytes to inflammatory sites and other aspects of activated T-lymphocyte physiology. Chemotactic for monocytes, dendritic cells and natural killer cells. Mild chemoattractant for primary activated T-lymphocytes and a potent chemoattractant for chronically activated T-lymphocytes but has no chemoattractant activity for neutrophils, eosinophils, and resting T-lymphocytes. Binds to CCR4. Processed forms MDC(3-69), MDC(5-69) and MDC(7-69) seem not be active.

Tissue specificity

Highly expressed in macrophage and in monocyte-derived dendritic cells, and thymus. Also found in lymph node, appendix, activated monocytes, resting and activated macrophages. Lower expression in lung and spleen. Very weak expression in small intestine. In lymph node expressed in a mature subset of Langerhans' cells (CD1a+ and CD83+). Expressed in Langerhans' cell histiocytosis but not in dermatopathic lymphadenopathy. Expressed in atopic dermatitis, allergic contact dermatitis skin, and psoriasis, in both the epidermis and dermis.

Sequence similarities

Belongs to the intercrine beta (chemokine CC) family.

Post-translational modifications

The N-terminal processed forms MDC(3-69), MDC(5-69) and MDC(7-69) are produced by proteolytic cleavage after secretion from monocyte derived dendrocytes.

Cellular localization

Secreted.

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