Datasheet for ABIN2192057

anti-MARCO antibody

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Overview

Quantity:	100 µg
Target:	MARCO
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MARCO antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func)

Product Details

Clone:	PLK-1
Isotype:	IgG3
Cross-Reactivity (Details):	Cross reactivity: Bovine : Yes, Chicken : No
Sterility:	0.2 µm filtered

Target Details

Target:	MARCO
Alternative Name:	Marco (MARCO Products)
Background:	The monoclonal antibody PLK-1 recognizes the macrophage receptor with collagenous structure (MARCO). The scavenger receptors (SRs) expressed by macrophages are thought to play an important role in the immune response against bacteria by mediating ligand binding

Target Details

	and phagocytosis. SRs can be divided into three different classes based upon their structural properties, which are termed SR-A, SR-B and SR-C. SRs-A are homotrimeric glycoproteins composed of 77 kDa monomers subdivided into 3 types.. The molecular structure of MARCO resembles that of SR-A type I, containing a triple-helical collagenous domain and a scavenger receptor cysteine-rich (SRCR) domain at the C terminus. MARCO is only expressed in some subpopulations of macrophages, although it's expression can be strongly upregulated during infection or LPS treatment. Furthermore, MARCO is, like sinusoidal endothelial cell markers DC-SIGNR, LYVE-1 and stabilin-2, expressed by sinusoidal endothelial cells in lymph node. MARCO expressed by alveolar macrophages seems to play an important role in response to inhaled particles and airborne pathogens. The monoclonal antibody PLK-1 binds specifically to MARCO, and has been shown to partially block ligand binding. Aliases SCARA2, scavenger receptor class A member 2, macrophage receptor with collagenous structure Immunogen Human alveolar macrophages (recognizes domain V between residues 420 and 431)
Pathways:	Activation of Innate immune Response

Application Details

Application Notes:	For immunohistochemistry and flow cytometry, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For functional studies, in vitro dilutions have to be optimized in user's experimental setting. Positive Human alveolar macrophages control Negative All other human cells control
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in:	Nascimento, Sallé, Hoebeke, Argibay, Peineau: "cGMP-mediated inhibition of cardiac L-type Ca(2+) current by a monoclonal antibody against the M(2) ACh receptor." in: **American journal of physiology. Cell physiology**, Vol. 281, Issue 4, pp. C1251-8, (2001) (PubMed).

Elies, Fu, Eftekhari, Wallukat, Schulze, Granier, Hjalmarson, Hoebeke: "Immunochemical and functional characterization of an agonist-like monoclonal antibody against the M2 acetylcholine receptor." in: **European journal of biochemistry / FEBS**, Vol. 251, Issue 3, pp. 659-66, (1998) (PubMed).

