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Product datasheet for AM26207PU-N

MARCO (420-431) Mouse Monoclonal Antibody [Clone ID: PLK-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PLK-1
Applications:	FC, FN, IF, IHC, IP, WB
Recommended Dilution:	**Immunohistochmistry on Frozen Sections:** Tissue sections can be fixed in acetone or 2% paraformaldehyde. PLK-1 antibody was used at 5 µg/ml (Ref.3,4). **Flow Cytometry:** Antibody PLK-1 weakly stains alveolar macrophages by recognizing the extracellular domain of MARCO. Transfected COS cells were used as positive control (Ref.1). **Functional assay:** Antibody PLK-1 blocks human alveolar macrophages binding to unopsonized particles (Ref.1,3,5). **Immunofluorescence:** Aveolar macrophages and transfected CHO cells were stained for MARCO using 0.6 µg/ml PLK-1 antibody (Ref.2,5). **Immunoprecipitation:** Antibody PLK-1 immunoprecipitates MARCO as 60 and 50 kDa protein from lysates obtained from COS cells transfected with human MARCO (Ref.3). **Western blot:** Antibody PLK-1 stained MARCO under non-reducing conditions (Ref.6). ***Positive Control:*** Human alveolar macrophages. ***Negative Control:*** All other Human cells.
Reactivity:	Bovine, Human
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Human alveolar macrophages
Specificity:	This antibody binds specifically to MARCO (recognizes domain V between residues 420 and 431), and has been shown to partially block ligand binding.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA
Concentration:	lot specific
Purification:	Protein G Chromatography

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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	macrophage receptor with collagenous structure
Database Link:	Entrez Gene 8685 Human Q9UEW3
Background:	The scavenger receptors (SRs) expressed by macrophages are thought to play an important role in the immune response against bacteria by mediating ligand binding 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.
Synonyms:	macrophage receptor with collagenous structure, Scavenger Receptor