

MARCO Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9891A

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	Q9UEW3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52658
Antigen Region	13-40

Additional Information

Gene ID	8685
Other Names	Macrophage receptor MARCO, Macrophage receptor with collagenous structure, Scavenger receptor class A member 2, MARCO, SCARA2
Target/Specificity	This MARCO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-40 amino acids of human MARCO.
Dilution	WB~~1:1000 FC~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MARCO Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MARCO
Synonyms	SCARA2
Function	Pattern recognition receptor (PRR) which binds Gram-positive and Gram-negative bacteria (PubMed: 9468508). Also plays a role in binding of unopsonized particles by alveolar macrophages (By similarity). Binds to the

secretoglobin SCGB3A2 (PubMed:[12847263](#)).

Cellular Location

Cell membrane; Single-pass type II membrane protein

Tissue Location

Expressed in alveolar macrophages (at protein level). Detected in macrophages from various tissues including thymus, kidney, Kupffer cells of liver, and spleen (PubMed:9468508)

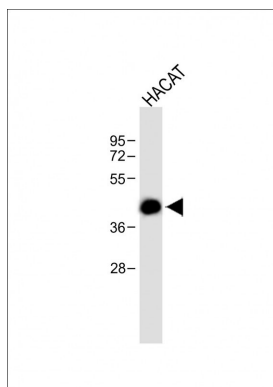
Background

MARCO is a member of the class A scavenger receptor family and is part of the innate antimicrobial immune system. The protein may bind both Gram-negative and Gram-positive bacteria via an extracellular, C-terminal, scavenger receptor cysteine-rich (SRCR) domain. In addition to short cytoplasmic and transmembrane domains, there is an extracellular spacer domain and a long, extracellular collagenous domain. The protein may form a trimeric molecule by the association of the collagenous domains of three identical polypeptide chains.

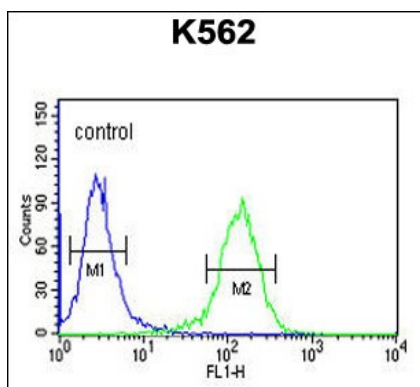
References

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Trynka, G., et al. Gut 58(8):1078-1083(2009)
Arredouani, M.S., et al. J. Immunol. 175(9):6058-6064(2005)
Liu, T., et al. J. Proteome Res. 4(6):2070-2080(2005)
Seta, N., et al. Arthritis Rheum. 44(4):931-939(2001)

Images

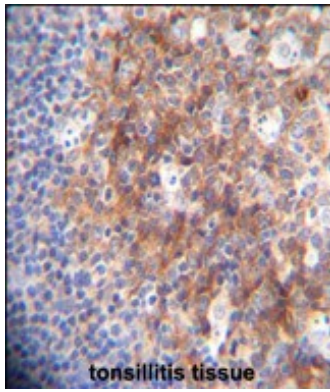


Anti-MARCO Antibody (N-term) at 1:500 dilution + HACAT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



MARCO Antibody (N-term) (Cat. #AP9891a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MARCO Antibody (N-term) (Cat. #AP9891A) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsillitis tissue



followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MARCO Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- [DNA Microarray Analysis of Submandibular Glands in IgG4-Related Disease Indicates a Role for MARCO and Other Innate Immune-Related Proteins.](#)
- [Recognition of dextran-superparamagnetic iron oxide nanoparticle conjugates \(Feridex\) via macrophage scavenger receptor charged domains.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.