

MD2 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP6351a

Specification

MD2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

Q9Y6Y9

MD2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 23643

Other Names

Lymphocyte antigen 96, Ly-96, ESOP-1, Protein MD-2, LY96, ESOP1, MD2

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP6351a was selected from the N-term region of human MD2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MD2 Antibody (N-term) Blocking Peptide - Protein Information

Name LY96

Synonyms ESOP1, MD2

Function

Binds bacterial lipopolysaccharide (LPS) (PubMed:17803912, PubMed:17569869). Cooperates with TLR4 in the innate immune response to bacterial lipopolysaccharide (LPS), and with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria (PubMed:11160242, PubMed:11593030). Enhances TLR4-dependent activation of NF-kappa-B (PubMed:10359581). Cells expressing both LY96 and TLR4, but not TLR4 alone, respond to LPS (PubMed:<a



href="http://www.uniprot.org/citations/10359581" target="_blank">10359581).

Cellular Location

Secreted, extracellular space. Secreted Note=Retained in the extracellular space at the cell surface by interaction with TLR4 (PubMed:10359581).

MD2 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

Blocking Peptides

MD2 Antibody (N-term) Blocking Peptide - Images

MD2 Antibody (N-term) Blocking Peptide - Background

MD2 cooperates with toll-like receptor 4 (TLR4)on the cell surface in the innate immune response to bacterial lipopolysaccharide (LPS), and with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria. This protein enhances TLR4-dependent activation of NF-kappa-B. Cells expressing both MD2 and TLR4, but not TLR4 alone, respond to LPS.

MD2 Antibody (N-term) Blocking Peptide - References

Nishitani, C., et al., Biochem. Biophys. Res. Commun. 328(2):586-590 (2005). Pugin, J., et al., Blood 104(13):4071-4079 (2004). Hyakushima, N., et al., J. Immunol. 173(11):6949-6954 (2004). Fujimoto, T., et al., J. Biol. Chem. 279(46):47431-47437 (2004). Hamann, L., et al., Genes Immun. 5(4):283-288 (2004).