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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Lymphocyte Antigen 86/MD-1. Rabbit Polyclonal Antibody

MD-1 (CT): Lymphocyte antigen 86

BACKGROUND

Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. The signaling of these TLRs is kept under tight control by the expression of endogenous inhibiting proteins such as RP105, a recently identified homolog of TLR4. This protein, in association with MD-1, interacts with and inhibits the TLR4/MD-2 signaling pathway. While MD-2 can directly bind to LPS, one of the activating molecules of TLR4, the function of MD-1 is less well-known. It has been suggested however, that the RP105/MD-1 complex influences antibody production mediated by both TLR4/MD-2 and TLR2 receptor complexes.

ORDERING INFORMATION

CATALOG NUMBER

X1800P

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.02% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human

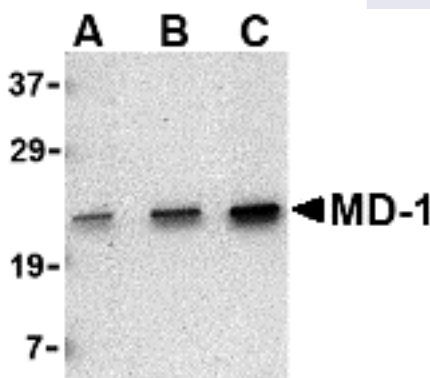
ACCESSION NUMBER

Human O95711

IMMUNOGEN

Rabbit polyclonal MD-1 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human MD-1

Western blot analysis of MD-1 in Daudi cell lysate with MD-1 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml.



POSITIVE CONTROL/TISSUE EXPRESSION

May cooperate with CD180 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS) and cytokine production. Important for efficient CD180 cell surface expression⁵

Highly expressed in B-cells, monocytes and tonsil.⁵

COMMENTS

MD-1 antibody can be used for the detection of MD-1 by Western blot at 0.5 – 1 ug/ml.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

- 1) Takeda K, Kaisho T, and Akira S. Toll-like receptors. *Annu. Rev. Immunol.* 2003; 21:335-76.
- 2) Divanovic S, Trompette A, Atabani SF, et al. Inhibition of TLR-4/MD-2 signaling by RP105/MD-1. *J. Endotoxin Res.* 2005; 11:363-8.
- 3) Tsuneyoshi N, Fukudome K, Kohara J, et al. The functional and structural properties of MD-2 required for liposaccharide binding are absent in MD-1. *J. Immunol.* 2005; 174:340-4.
- 4) Nagai Y, Kobayashi T, Motoi Y, et al. The radioprotective 105/MD-1 complex links TLR2 and TLR4/MD-2 in antibody response to microbial membranes. *J. Immunol.* 2005; 174:7043-9.
- 5) UniProtKB/Swiss-Prot entry O95711, <http://www.expasy.org/uniprot/O95711>, accessed January 29, 2007

PRODUCT SPECIFIC REFERENCES