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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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TRIAD3A (TLR-Ubiquitinating Enzyme). Rabbit Polyclonal Antibody

EC 6.3.2., Ubiquitin-conjugating enzyme 7-interacting protein 1, Zinc finger protein inhibiting NF-kappa-B, Triad domain-containing protein 3

BACKGROUND

Activation of NF- κ B as a result of Toll-like receptor (TLR) and IL-1 receptor signaling is a major component of innate immune responses (reviewed in 1). Signals from these receptors are relayed by a number of adapter molecules such as TRIF, TIRAP, and MyD88 (2). Several regulatory mechanisms exist to control TLR signal transduction, including the inhibition of TLR expression and signaling by molecules such as ST2 and SIGIRR (3,4). Another mechanism is by the ubiquitination of selected TLRs by TRIAD3A, an E3 ubiquitin-protein ligase (5). TRIAD3A is a RING finger protein that can bind to TLR4 and TLR9, and to a lesser extent TLR3 and TLR5, catalyzing the ubiquitination of these molecules. Overexpression of TRIAD3A promoted the nearly complete degradation of TLR4 and TLR9; this reduction was reflected in the decreased signal-specific activation by ligands specific for these TLRs. Conversely, depletion of TRIAD3A resulted in enhanced TLR activation (5).

ORDERING INFORMATION

CATALOG NUMBER

X1826P

SIZE

100 μ g

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

Mouse

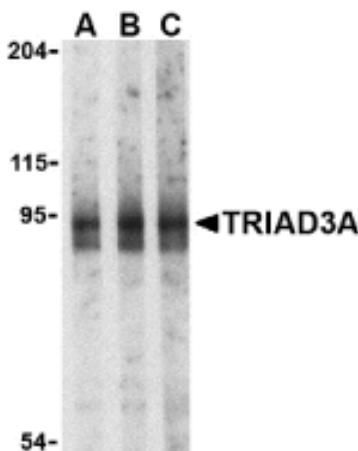
ACCESSION NUMBER

Human Q9NWF9

IMMUNOGEN

Rabbit polyclonal TRIAD3A antibody was raised against a peptide corresponding to 15 amino acids near the amino-terminus of mouse TRIAD3A.

Western blot analysis of TRIAD3A in mouse heart cell lysates with TRIAD3A antibody at (A) 0.5, (B) 1, and (C) 2 μ g/ml



POSITIVE CONTROL/TISSUE EXPRESSION

Located in the cytoplasm, TRIAD3A is ubiquitous, with the highest levels of expression in testis and peripheral blood leukocytes.⁶

COMMENTS

TRIAD3A antibody can be used for detection of TRIAD3A by Western blot at 0.5 to 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) Vogel SN, Fitzgerald KA, and Fenton MJ. TLRs: differential adapter utilization by toll-like receptors mediates TLR-specific patterns of gene expression. *Mol. Interv.* 2003; 3:466-77.
- 3) Sweet MJ, Leung BP, Kang D, et al. A novel pathway regulating lipopolysaccharide-induced shock by ST2/T1 via inhibition of Toll-like receptor 4 expression. *J. Immunol.* 2001; 166:6633-9.
- 4) Wald D, Qin J, Zhao Z, et al. SIGIRR, a negative regulator of Toll-like receptor-interleukin 1 receptor signaling. *Nat. Immunol.* 2003; 4:920-7.
- 5) Chuang T-H and Ulevitch, RJ. Triad3A, an E3 ubiquitinprotein ligase regulating Toll-like receptors. *Nat. Immunol.* 2004; 5: 495-502.
- 6) UniProtKB/Swiss-Prot entry Q9NWF9, <http://ca.expasy.org/uniprot/Q9NWF9>, Accessed February 7, 2007.

PRODUCT SPECIFIC REFERENCES