



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Toll-like receptor 9 (TLR9) (IN). Rabbit Polyclonal Antibody

TLR9 (IN): Toll-like receptor 9, CD289 antigen

### BACKGROUND

Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in *Drosophila*. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses (1,2). TLR9 forms a subfamily along with TLR7 and TLR8 that recognize viral RNA and CpG DNA sequences (3) and are localized in intracellular acidic compartments such as the phagolysosome (4). Unlike other TLRs which act through adaptor molecules such as TOLLIP, TIRAP, TRIF, and MyD88 to activate various kinases and transcription factors to respond to potential infection (5), TLR9 is strictly dependent on MyD88 (3).

### ORDERING INFORMATION

**CATALOG NUMBER**

X1820P

**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, Immunohistochemistry (Paraffin)

**SPECIES REACTIVITY**

Human, Mouse, Rat

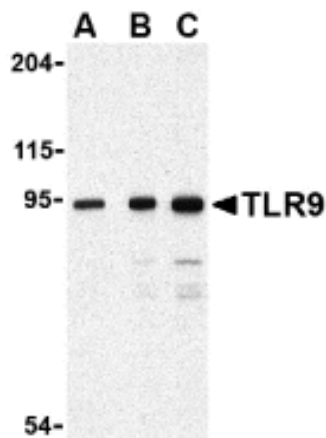
**ACCESSION NUMBER**

Human Q9NR96

### IMMUNOGEN

Rabbit polyclonal TLR9 antibody was raised against a peptide corresponding to 15 amino acids near the center of human TLR9.

Western blot analysis of TLR9 in Jurkat cell lysate with TLR9 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml.



**POSITIVE CONTROL/TISSUE EXPRESSION**

Positive Control Jurkat Cell Lysate; Located in the membrane, and highly expressed in spleen, lymph node, tonsil and peripheral blood leukocytes, especially in plasmacytoid pre-dendritic cells. Levels are much lower in monocytes and CD11c+ immature dendritic cells. Also detected in lung and liver.<sup>6</sup>

**COMMENTS**

TLR9 antibody can be used for detection of TLR9 by Western blot at 0.5 to 1 µg/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) Janeway CA Jr. and Medzhitov R. Innate immune recognition. *Annu. Rev. Immunol.* 2002; 20:197-216.
- 3) Wagner H. The immunobiology of the TLR9 subfamily. *Trends Immunol.* 2004; 381-6. 4.) Nishiya T and DeFranco AL. Ligand-regulated chimeric receptor approach reveals distinctive subcellular localization and signaling properties of the Toll-like receptors. *J. Biol. Chem.* 2004; 279:19008-17.
- 5) McGettrick AF and O'Neill LAJ. The expanding family of MyD88-like adaptors in Toll-like receptor signal transduction. *Mol Imm.* 2004; 41:577-82
- 6) UniProtKB/Swiss-Prot entry Q9NR96, <http://www.expasy.org/uniprot/Q9NR96>, Accessed February 16, 2007.

**PRODUCT SPECIFIC REFERENCES**