BACKGROUND

The toll-like receptors (TLR) are a family of human receptors that share homology with the Drosophila toll receptors, which are involved in mediating dorsoventral polarization in developing Drosophila embryos and participate in host immunity. The TLR family members are characterized by a highly conserved toll homology (TH) domain, which is essential for toll-induced signal transductions. TLRs are type I transmembrane receptors that contain an extracellular domain consisting of several leucine-rich regions and a single cytoplasmic Toll/IL-1R like domain. Three TLR family members, TLR7, TLR8 and TLR9, belong to a subfamily of TLRs, which are differentially expressed. TLR7 is expressed in lung, placenta and spleen. TLR8 is expressed in lung and peripheral blood leukocytes, and TLR9 is predominantly expressed in spleen, lymph nodes, bone marrow and peripheral blood leukocytes. TLR7, TLR8 and TLR9 stimulate the NF-κB signaling pathway, suggesting that they play a role in the immune response.

CHROMOSOMAL LOCATION

Genetic locus: TLR9 (human) mapping to 3p21.2; Tlr9 (mouse) mapping to 9 F1.

SOURCE

TLR9 (26C593) is a mouse monoclonal antibody raised against amino acids 268-284 of TLR9 of human origin.

PRODUCT

Each vial contains 100 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TLR9 (26C593) is recommended for detection of TLR9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for TLR9 siRNA (h): sc-40270, TLR9 siRNA (m): sc-40271, TLR9 siRNA (r); sc-270187, TLR9 shRNA Plasmid (h): sc-40270-SH, TLR9 shRNA Plasmid (m): sc-40271-SH, TLR9 shRNA Plasmid (r): sc-270187-SH, TLR9 shRNA (h) Lentiviral Particles: sc-40270-V, TLR9 shRNA (m) Lentiviral Particles: sc-40271-V and TLR9 shRNA (r) Lentiviral Particles: sc-270187-V.

Molecular Weight of TLR9: 113 kDa.

Molecular Weight of glycosylated TLR9: 160 kDa.

Positive Controls: RAW 309 Cr.1 cell lysate: sc-3814, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2004.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

DATA

132 K –
90 K –
50 K –

TLR9 (26C593): sc-52966. Western blot analysis of TLR9 expression in HeLa whole cell lysate.

222 K –
110 K –

TLR9 (26C593): sc-52966. Western blot analysis of TLR9 expression in Jurkat whole cell lysate.

SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.