SANTA CRUZ BIOTECHNOLOGY, INC.

TLR2 (H-175): sc-10739



BACKGROUND

Six human homologs of the Drosophila Toll receptor were initially identified based on their sequence similarities and designated Toll-like receptors (TLR). Toll receptors are involved in mediating dorsoventral polarization in the developing Drosophila embryo and also participate in the host immunity. The TLR family of proteins are characterized by a highly conserved Toll homology (TH) domain, which is essential for Toll-induced signal transduction. TLR1, as well as the other TLR family members, are type I transmembrane receptors that characteristically contain an extracellular domain that consists of several leucine-rich regions along with a single cytoplasmic Toll/IL-1R-like domain. TLR2 and TLR4 are activated in response to lipopolysacchride (LPS) stimulation, which results in the activation and translocation of NF κ B and suggests that these receptors are involved in mediating inflammatory responses. Expression of TLR receptors is highest in peripheral blood leukocytes, macrophages and monocytes. TLR6 is highly homologous to TLR1, sharing greater than 65% sequence identity, and, like other members of the TLR family, it induces NFkB signaling upon activation.

CHROMOSOMAL LOCATION

Genetic locus: TLR2 (human) mapping to 4q31.3; Tlr2 (mouse) mapping to 3 E3.

SOURCE

TLR2 (H-175) is a rabbit polyclonal antibody raised against amino acids 180-354 of TLR2 of human origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TLR2 (H-175) is recommended for detection of TLR2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TLR2 siRNA (h): sc-40256, TLR2 siRNA (m): sc-40257, TLR2 shRNA Plasmid (h): sc-40256-SH, TLR2 shRNA Plasmid (m): sc-40257-SH, TLR2 shRNA (h) Lentiviral Particles: sc-40256-V and TLR2 shRNA (m) Lentiviral Particles: sc-40257-V.

Molecular Weight of TLR2: 90-100 kDa.

Positive Controls: TLR2 (h): 293T lysate: sc-115116, U-937 cell lysate: sc-2239 or Caco-2 cell lysate: sc-2262.

RESEARCH USE

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

PROTOCOLS

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

STORAGE

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

DATA



TLR2 (H-175): sc-10739. Western blot analysis of TLR2 expression in non-transfected: sc-117752 (**A**) and human TLR2 transfected: sc-115116 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

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Try TLR2 (TL2.1): sc-21759 or TLR2 (TLR2.3):

sc-21760, our highly recommended monoclonal aternatives to TLR2 (H-175). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **TLR2 (TL2.1): sc-21759**.