

TICAM-2 (V-13): sc-34748

BACKGROUND

TICAM-1, also known as Toll-interleukin-1 receptor domain (TIR)-containing adaptor molecule, maps at chromosome 19p13.3. It can physically bind the TIR domain of Toll-like receptor 3 (TLR3) and activate the IFN- β promoter. TLR proteins are signaling molecules that can recognize pathogen associated molecular patterns and may function as a link between the innate and adaptive immune responses. TICAM-1 mediates dsRNA-TLR3-dependent production of IFN- β . This TICAM-1-dependent pathway is important for other TLR-IFN- β pathways, which form part of the MyD88-independent cellular immune response. TICAM-2, a cytoplasmic protein, physically bridges TLR4 and TICAM-1 and functionally transmits LPS-TLR4 signaling to TICAM-1, which in turn activates IRF-3. In its structural features, TICAM-2 resembles MAL/TIRAP, an adapter that links TLR2/4 and MyD88.

CHROMOSOMAL LOCATION

Genetic locus: TICAM2 (human) mapping to 5q22.3; Ticam2 (mouse) mapping to 18 C.

SOURCE

TICAM-2 (V-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TICAM-2 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-34748 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

TICAM-2 (V-13) is recommended for detection of TICAM-2 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).

TICAM-2 (V-13) is also recommended for detection of TICAM-2 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TICAM-2 siRNA (h): sc-44747, TICAM-2 siRNA (m): sc-44748, TICAM-2 shRNA Plasmid (h): sc-44747-SH, TICAM-2 shRNA Plasmid (m): sc-44748-SH, TICAM-2 shRNA (h) Lentiviral Particles: sc-44747-V and TICAM-2 shRNA (m) Lentiviral Particles: sc-44748-V.

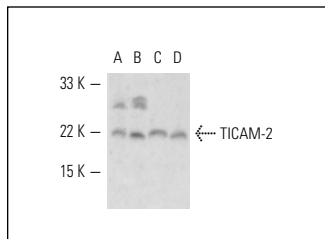
Molecular Weight of TICAM-2: 22 kDa.

Positive Controls: U-937 cell lysate: sc-2239, PC-3 cell lysate: sc-2220 or OV-90 whole cell lysate: sc-364191.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TICAM-2 (V-13): sc-34748. Western blot analysis of TICAM-2 expression in U-937 (A), LPS-treated U-937 (B), PC-3 (C) and OV-90 (D) whole cell lysates.

STORAGE

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

PROTOCOLS

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



Try **TICAM-2 (E-2): sc-376076** or **TICAM-2 (G-6): sc-376356**, our highly recommended monoclonal alternatives to TICAM-2 (V-13).