

Rabbit anti-Human TRIF/TICAM1 Polyclonal Antibody | anti-TICAM1 antibody

Anti-TRIF/TICAM1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125627	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

TRIF/TICAM1; Polyclonal Antibody; Anti-TRIF/TICAM1 Antibody; TICAM1; PRVTIRB; TRIF; TIR domain-containing adapter molecule 1; TICAM-1; Proline-rich; vinculin and TIR domain-containing protein B; Putative NF-kappa-B-activating protein 502H; Toll-interleukin-1 receptor domain-containing adapter protein inducing interferon beta; MyD88-3; TIR domain-containing adapter protein inducing IFN-beta; toll like receptor adaptor molecule 1; anti-TICAM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TRIF/TICAM detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-TICAM1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human TRIF/TICAM1 recombinant protein (Position: S385-H448).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of PC-3 cells using anti-TRIF/TICAM1 antibody (AAA125627). Overlay histogram showing PC-3 cells stained with AAA125627 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRIF/TICAM1 Antibody (AAA125627, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of TRIF/TICAM1 using anti-TRIF/TICAM1 antibody (AAA125627). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human Raji whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TRIF/TICAM1 antigen affinity purified polyclonal antibody (Catalog # AAA125627) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRIF/TICAM1 at approximately 110KD. The expected band size for TRIF/TICAM1 is at 76KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TICAM1 antibody	TICAM1 (TIR DOMAIN-CONTAINING ADAPTOR MOLECULE 1), also known as TRIF, is an adapter in responding to activation of toll-like receptors (TLRs). It mediates the rather delayed cascade of two TLR-associated signaling cascades, where the other one is dependent upon a MyD88 adapter. By genomic sequence analysis, Oshiumi et al. (2003) mapped the TICAM1 gene to chromosome 19p13. 3. By coimmunoprecipitation analysis, Oshiumi et al. (2003) showed that TICAM1 interacts specifically with TLR3, but not with other TLRs. Functional analysis showed that the association of TLR3 and TICAM1 mediates dsRNA activation of IFNB, through NFKB, AP1, or IRF3. TICAM1 activation of NFKB was found to occur predominantly through IRAK1 rather than IRAK2. Small interfering (si)RNA blockage of TICAM1, just upstream of the TIR domain, reduced IFNB production in response to dsRNA.
References	1. Carty, M., Goodbody, R., Schroder, M., Stack, J., Moynagh, P. N., Bowie, A. G. The human adaptor SARM negatively regulates adaptor protein TRIF-dependent Toll-like receptor signaling. <i>Nature Immun.</i> 7: 1074-1081, 2006. 2. Oshiumi, H., Matsumoto, M., Funami, K., Akazawa, T., Seya, T. TICAM-I, an adaptor molecule that participates in Toll-like receptor 3-mediated interferon-beta induction. <i>Nature Immun.</i> 4: 161-167, 2003. 3. Yamamoto, M., Sato, S., Mori, K., Hoshino, K., Takeuchi, O., Takeda, K., Akira, S. Cutting edge: a novel Toll/IL-1 receptor domain-containing adapter that preferentially activates the IFN-beta promoter in the Toll-like receptor signaling. <i>J. Immun.</i> 169: 6668-6672, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74727957
NCBI GeneID	148022
UniProt Accession #	Q8IUC6 ; O75532 ; Q86XP8 ; Q96GA0 ; B3Y691
Molecular Weight	76,422 Da
NCBI Official Full Name	TIR domain-containing adapter molecule 1
NCBI Official Synonym Full Names	toll-like receptor adaptor molecule 1
NCBI Official Symbol	TICAM1
NCBI Official Synonym Symbols	TRIF; IIAE6; MyD88-3; PRVTIRB; TICAM-1
NCBI Protein Information	TIR domain-containing adapter molecule 1; putative NF-kappa-B-activating protein 502H; TIR domain containing adaptor inducing interferon-beta; TIR domain-containing adapter protein inducing IFN-beta; proline-rich, vinculin and TIR domain-containing protei
UniProt Protein Name	TIR domain-containing adapter molecule 1
UniProt Gene Name	TICAM1
UniProt Synonym Gene Names	PRVTIRB; TRIF; TICAM-1; MyD88-3
UniProt Entry Name	TCAM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/trif-ticam1-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125627>