

Anti-TRIF Antibody

Catalog # ABO11206

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	Q8IUC6
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for TIR domain-containing adapter molecule 1(TICAM1) detection. Tested with WB, IHC-P, IHC-F in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	148022
Other Names	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, TICAM1, PRVTIRB, TRIF
Calculated MW	76422
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasmic vesicle, autophagosome . Colocalizes with UBQLN1 in the autophagosome. .
Tissue Specificity	Ubiquitously expressed but with higher levels in liver. .
Source	Eukaryota
Protein Name	TIR domain-containing adapter molecule 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRIF(692-712aa NNHMWNQRGSQAPEDKTQEAE).

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 TIR domain.

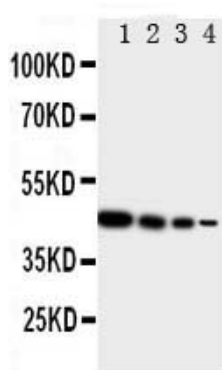
Protein Information

Name	TICAM1
Synonyms	PRVTIRB, TRIF
Function	Involved in innate immunity against invading pathogens. Adapter used by TLR3, TLR4 (through TICAM2) and TLR5 to mediate NF- kappa-B and interferon-regulatory factor (IRF) activation, and to induce apoptosis (PubMed: 12471095 , PubMed: 12539043 , PubMed: 14739303 , PubMed: 28747347 , PubMed: 35215908 , PubMed: 31511519). Ligand binding to these receptors results in TRIF recruitment through its TIR domain (PubMed: 12471095 , PubMed: 12539043 , PubMed: 14739303). Distinct protein-interaction motifs allow recruitment of the effector proteins TBK1, TRAF6 and RIPK1, which in turn, lead to the activation of transcription factors IRF3 and IRF7, NF-kappa-B and FADD respectively (PubMed: 12471095 , PubMed: 12539043 , PubMed: 14739303). Phosphorylation by TBK1 on the pLxIS motif leads to recruitment and subsequent activation of the transcription factor IRF3 to induce expression of type I interferon and exert a potent immunity against invading pathogens (PubMed: 25636800). Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of pro-inflammatory cytokines (By similarity).
Cellular Location	Cytoplasmic vesicle, autophagosome. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q80UF7}. Mitochondrion {ECO:0000250 UniProtKB:Q80UF7}. Note=Colocalizes with UBQLN1 in the autophagosome (PubMed:21695056). Colocalizes in the cytosol with DDX1, DDX21 and DHX36. Colocalizes in the mitochondria with DDX1 and poly(I:C) RNA ligand. The multi-helicase-TICAM1 complex may translocate to the mitochondria upon poly(I:C) RNA ligand stimulation (By similarity). {ECO:0000250 UniProtKB:Q80UF7, ECO:0000269 PubMed:21695056}
Tissue Location	Ubiquitously expressed but with higher levels in liver.

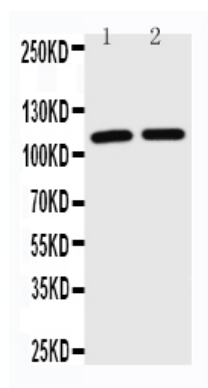
Background

TICAM(TIR DOMAIN-CONTAINING ADAPTOR MOLECULE 1), also known as TICAM1 or 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 either 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.

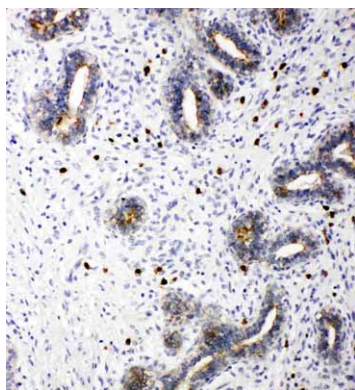
Images



Anti-TRIF antibody, ABO11206, Western blotting
Recombinant Protein Detection Source: E.coli derived -recombinant Human TICAM1, 44.7KD(162aa tag+ Q468-E712)
Lane 1: Recombinant Human TICAM1 Protein 10ng
Lane 2: Recombinant Human TICAM1 Protein 5ng
Lane 3: Recombinant Human TICAM1 Protein 2.5ng
Lane 4: Recombinant Human TICAM1 Protein 1.25ng



Anti-TRIF antibody, ABO11206, Western blotting
Lane 1: JURKAT Cell Lysate
Lane 2: HL-60 Cell Lysate



Anti-TRIF antibody, ABO11206, IHC(P)
IHC(P): Human Mammary Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.