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TICAM1 / TRIF Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11554

Specification

TICAM1 / TRIF Antibody (C-Terminus) - Product Information

Application	**WB, IHC-P**
Primary Accession	Q8IUC6
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**76kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

TICAM1 / TRIF Antibody (C-Terminus) - 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

Target/Specificity
Peptide comprised of 14 amino acids from the C-terminus of human TICAM1

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
TICAM1 / TRIF Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

TICAM1 / TRIF Antibody (C-Terminus) - 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:<a href="http://www.uniprot.org/citations/28747347"

target="_blank">28747347, PubMed:35215908). 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.

TICAM1 / TRIF Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TICAM1 / TRIF Antibody (C-Terminus) - Images

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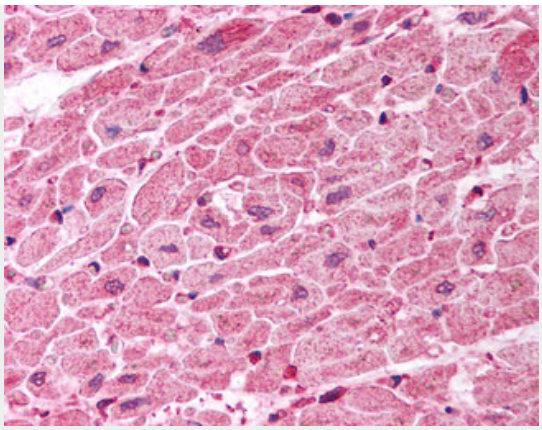

Anti-TICAM1 / TRIF antibody IHC of human heart.

TICAM1 / TRIF Antibody (C-Terminus) - Background

Involved in innate immunity against invading pathogens. Adapter used by TLR3 and TLR4 (through TICAM2) to mediate NF- kappa-B and interferon-regulatory factor (IRF) activation, and to induce apoptosis. Ligand binding to these receptors results in TRIF recruitment through its TIR domain. 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.

TICAM1 / TRIF Antibody (C-Terminus) - References

Yamamoto M.,et al.J. Immunol. 169:6668-6672(2002).
Oshiumi H.,et al.Nat. Immunol. 4:161-167(2003).
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
Matsuda A.,et al.Oncogene 22:3307-3318(2003).
Begum N.A.,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.