

**TICAM1 / TRIF Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11720****Specification****TICAM1 / TRIF Antibody (C-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">Q8IUC6</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76kDa KDa

**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 corresponding to 14 amino acids near the C-terminus of human TRIF

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**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](http://www.uniprot.org/citations/12471095), PubMed: [12539043](http://www.uniprot.org/citations/12539043), PubMed: [14739303](http://www.uniprot.org/citations/14739303), PubMed: [28747347](http://www.uniprot.org/citations/28747347)). Ligand binding to these receptors results in TRIF recruitment through its TIR domain (PubMed: [12471095](http://www.uniprot.org/citations/12471095))

target="\_blank">12471095</a>, PubMed:<a href="http://www.uniprot.org/citations/12539043" target="\_blank">12539043</a>, PubMed:<a href="http://www.uniprot.org/citations/14739303" target="\_blank">14739303</a>). 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:<a href="http://www.uniprot.org/citations/12471095" target="\_blank">12471095</a>, PubMed:<a href="http://www.uniprot.org/citations/12539043" target="\_blank">12539043</a>, PubMed:<a href="http://www.uniprot.org/citations/14739303" target="\_blank">14739303</a>). 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:<a href="http://www.uniprot.org/citations/25636800" target="\_blank">25636800</a>). 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.

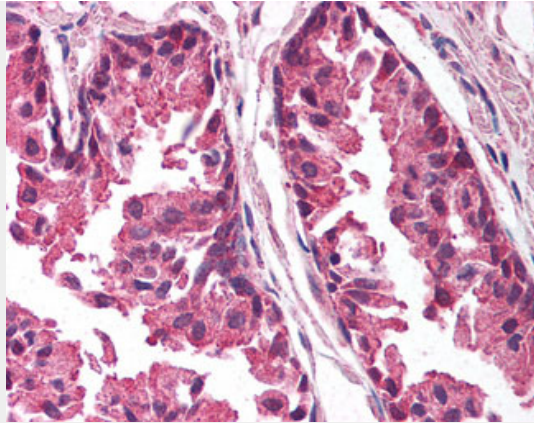
#### TICAM1 / TRIF Antibody (C-Terminus) - Protocols

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

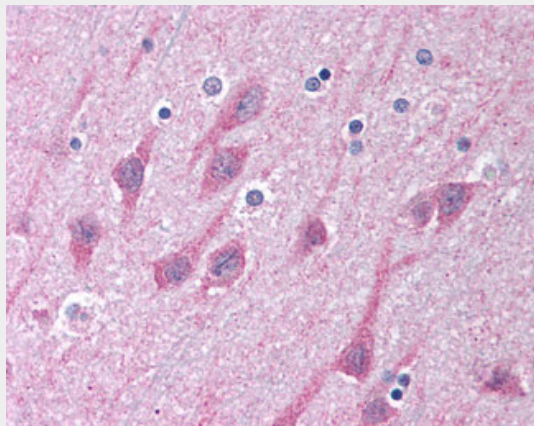
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TICAM1 / TRIF Antibody (C-Terminus) - Images





Anti-TICAM1 / TRIF antibody IHC of human prostate.



Anti-TICAM1 / TRIF antibody IHC of human brain, cortex.

### **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.