10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Goat Anti-TICAM1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF4336a

## Product Information

| | |
|---|---|
| **Application** | IHC, FC, Pep-ELISA |
| **Primary Accession** | Q8IUC6 |
| **Other Accession** | NP_891549.1 |
| **Reactivity** | Human |
| **Host** | Goat |
| **Clonality** | Polyclonal |
| **Clone Names** | TICAM1 |
| **Calculated MW** | 76422 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 148022 |
| **Other Names** | TICAM1, toll-like receptor adaptor molecule 1, MGC35334, PRVTIRB, TICAM-1, TRIF, TIR domain containing adaptor inducing interferon-beta |
| **Dilution** | IHC~~1:100~500 FC~~1:10~50 Pep-ELISA~~N/A |
| **Format** | Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. |
| **Immunogen** | Peptide with sequence C-HARADEHIALRVREK, from the internal region of the protein sequence according to NP_891549.1. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Goat Anti-TICAM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## 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).

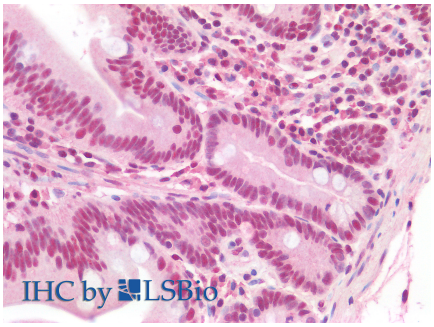
**Cellular Location**

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}

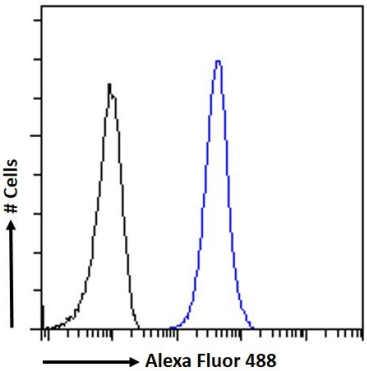
**Tissue Location**

Ubiquitously expressed but with higher levels in liver.

## Images




AF4336a (2.5 µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer Ph 6, AP-staining.




AF4336a Flow cytometric analysis of paraformaldehyde fixed K562 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fo

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