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## TICAM2 (vPair™) Antibodies

**Cat#:** R3200-vp

**Lot#:** Refer to vial

**Predicted I Observed M.W.:** 27, 46 I 27 kDa

**Uniprot ID:** Q86XR7

**Application:** WB

**Quantity:** 50 ul TICAM2 (M) (R3200-2) Rabbit Polyclonal Antibody &  
50 ul TICAM2 (C) (R3200-3) Rabbit Polyclonal Antibody

### Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

### Background:

TIR domain-containing adapter molecule 2 (TICAM2) functions as sorting adapter in LPS-TLR4 signaling to regulate the MYD88-independent pathway during the innate immune response to LPS. TICAM2 physically bridges TLR4 and TICAM1 and functionally transmits LPS-TLR4 signal to TICAM1; signaling is proposed to occur in early endosomes after endocytosis of TLR4. TICAM2 may also be involved in IL1-triggered NF-kappa-B activation, functioning upstream of IRAK1, IRAK2, TRAF6, and IKKB; however, reports are controversial. Two isoforms of TICAM2 have been identified: isoform 1 (also known as TRAM) and isoform 2 (also known as TAG; TRAM adaptor with GOLD domain), which differ at their N-terminus. Isoform 2 is proposed to inhibit LPS-TLR4 signaling at the late endosome by interaction with isoform 1; thereby disrupting the association of isoform 1 with TICAM1.

### Other Names:

TIR domain-containing adapter molecule 2, TICAM-2, Putative NF-kappa-B-activating protein 502, TRIF-related adapter molecule, Toll-like receptor adaptor protein 3, Toll/interleukin-1 receptor domain-containing protein, MyD88-4, TIRAP3, TIRP, TRAM

### Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing either the middle [TICAM2 (M) (R3200-2)] or the C-terminal [TICAM2 (C) (R3200-3)] region of human TICAM2. Antibodies were purified by affinity purification using immunogen.

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**For research use only. Not for therapeutic or diagnostic purposes.**  
**Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301**

**Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

**Species Specificity:**

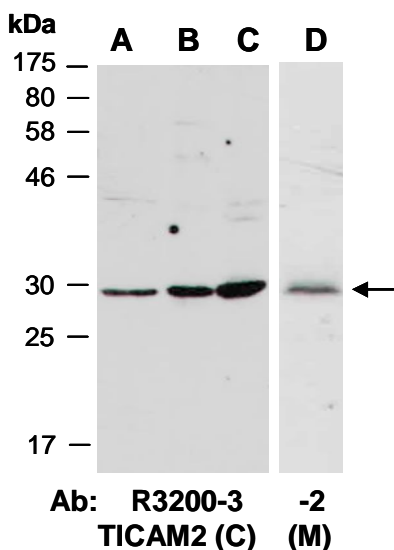
Human, Mouse

**Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot of total cell extracts from A) mouse thymus, B, D) human HeLa, C) human Jurkat; using 2 independent Abs against 2 distinct regions of human TICAM2 at RT for 2 h. These 2 Abs predominately recognize TICAM2 isoform 1.