Recombinant Human TIR domain-containing adapter molecule 2(TICAM2)

Catalog No: #AP76869

Package Size: #AP76869-1 20ug #AP76869-2 100ug #AP76869-3 1mg

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Description

Product Name	Recombinant Human TIR domain-containing adapter molecule 2(TICAM2)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-235aaSequence Info:Full Length
Other Names	Putative NF-kappa-B-activating protein 502 TRIF-related adapter molecule Toll-like receptor adaptor protein 3 Toll,interleukin-1 receptor domain-containing protein
Accession No.	Q86XR7
Uniprot	Q86XR7
GeneID	100302736;353376;
Calculated MW	53.8 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	GIGKSKINSCPLSLSWGKRHSVDTSPGYHESDSKKSEDLSLCNVAEHSNTTEGPTGKQEGAQSVEEMFEEEA EEEVFLKFVILHAEDDTDEALRVQNLLQDDFGIKPGIIFAEMPCGRQHLQNLDDAVNGSAWTILLLTENFLRDT WCNFQFYTSLMNSVNRQHKYNSVIPMRPLNNPLPRERTPFALQTINALEEESRGFPTQVERIFQESVYKTQQT IWKETRNMVQRQFIA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Functions as sorting adapter in LPS-TLR4 signaling to regulate the MYD88-independent pathway during the innate immune response to LPS. Physically bridges TLR4 and TICAM1 and functionally transmits LPS-TRL4 signal to TICAM1; signaling is proposed to occur in early endosomes after endocytosis of TLR4. May also be involved in IL1-triggered NF-kappa-B activation, functioning upstream of IRAK1, IRAK2, TRAF6, and IKBKB; however, reports are controversial. Involved in IL-18 signaling and is proposed to function as a sorting adaptor for MYD88 in IL-18 signaling during adaptive immune response.
Isoform 2: Proposed to inhibit LPS-TLR4 signaling at the late endosome by interaction with isoform 1 thereby disrupting the association of isoform 1 with TICAM1. May be involved in TLR4 degradation in late endosomes.

References

"TIRP, a novel Toll,interleukin-1 receptor (TIR) domain-containing adapter protein involved in TIR signaling."
Bin L.-H., Xu L.-G., Shu H.-B.
J. Biol. Chem. 278:24526-24532(2003)Research Topic:Immunology

Note: This product is for in vitro research use only