TICAM1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	TICAM1, Blocking Peptide
Full Product Name	TICAM1 Peptide - C-terminal region
Product Gene Name	TICAM1 blocking peptide
Product Synonym Gene Name	TRIF; IIAE6; MyD88-3; PRVTIRB; TICAM-1
Sequence	Synthetic peptide located within the following region: PFPQSPAFPT ASPAPPQSPG LQPLIIHHAQ MVQLGLNNHM WNQRGSQAPE
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	TICAM1 peptide (MBS3245583) is used for blocking the activity of TICAM1 antibody (MBS3220785)
Molecular Weight	78 kDa
OMIM	607601
Product Categories/Family for TICAM1 blocking peptide	Peptide
Applications Tested/Suitable for TICAM1 blocking peptide	Western Blot (WB)
Related Product Information for TICAM1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-TICAM1 Antibody, made Target Description: This gene encodes an adaptor protein containing a Toll/interleukin-1 receptor (TIR) homology domain, which is an intracellular signaling domain that mediates protein-protein interactions between the Toll-like receptors (TLRs) and signal-transduction components. This protein is involved in native immunity against invading pathogens. It specifically interacts with toll-like receptor 3, but not with other TLRs, and this association mediates dsRNA induction of interferon-beta through activation of nuclear factor kappa-B, during an antiviral immune response.
Other Notes	Small volumes of TICAM1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TICAM1 purchase	MBS3245583 is a blocking peptide targeting TICAM1. Also known as TICAM1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TICAM1. It may not necessarily be applicable to this product.

NCBI GI #	41281981
NCBI GeneID	148022
NCBI Accession #	NP_891549.1
UniProt Primary Accession #	Q8IUC6
UniProt Related Accession #	Q8IUC6

GenBank Nucleotide #	NM_182919.3
NCBI Official Full Name	TIR domain-containing adapter molecule 1
NCBI Official Synonym Full Names	toll like receptor adaptor molecule 1
NCBI Official Symbol	TICAM1
NCBI Official Synonym Symbols	TRIF; IIAE6; MyD88-3; PRVTIRB; TICAM-1
UniProt Protein Name	TIR domain-containing adapter molecule 1
UniProt Synonym Protein Names	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
Protein Family	TIR domain-containing adapter molecule
UniProt Gene Name	TICAM1
UniProt Synonym Gene Names	PRVTIRB; TRIF; TICAM-1; MyD88-3
UniProt Entry Name	TCAM1_HUMAN
NCBI Protein Information	TIR domain-containing adapter molecule 1
NCBI Summary for TICAM1	This gene encodes an adaptor protein containing a Toll/interleukin-1 receptor (TIR) homology domain, which is an intracellular signaling domain that mediates protein-protein interactions between the Toll-like receptors (TLRs) and signal-transduction components. This protein is involved in native immunity against invading pathogens. It specifically interacts with toll-like receptor 3, but not with other TLRs, and this association mediates dsRNA induction of interferon-beta through activation of nuclear factor kappa-B, during an antiviral immune response. [provided by RefSeq, Jan 2012]
UniProt Comments for TICAM1	TICAM1: an adaptor protein involved in innate immunity against invading pathogens. Associates with 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 TICAM1 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. Interacts with the TIR domain of TLR3. Interacts with AZI2, TBK1, IRF3 and IRF7. Interacts with TICAM2 in TLR4 recruitment. Interaction with PIAS4 inhibits the TICAM1-induced NF-kappa-B, IRF and IFNB1 activation. Interacts with IKBKB and IKBKE. Interaction with SARM1 blocks TICAM1-dependent transcription factor activation. Interacts with TRAF3. Interacts with TRAFD1. Protein type: Adaptor/scaffold; Apoptosis Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: endosome membrane; cytosol Molecular Function: protein binding; signal transducer activity; protein kinase binding Biological Process: I-kappaB kinase/NF-kappaB cascade; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of nitric oxide biosynthetic process; positive regulation of protein binding; regulation of protein homodimerization activity; MyD88-independent toll-like receptor signaling pathway; positive regulation of interleukin-6 production; toll-like receptor 3 signaling pathway; positive regulation of tumor necrosis factor production; positive regulation of natural killer cell activation; activation of NF-kappaB transcription factor; positive regulation of chemokine biosynthetic process; response to exogenous dsRNA; positive regulation of protein ubiquitination; macrophage activation during immune response; positive regulation of interferon-beta biosynthetic process; toll-like receptor signaling pathway; positive regulation of B cell proliferation; lipopolysaccharide-mediated signaling pathway; innate immune response; inflammatory response; toll-like receptor 4 signaling pathway; defense response to virus Disease: Herpes Simplex Encephalitis, Susceptibility To, 4
Research Articles on TICAM1	**1.** These data indicate a novel role of the TLR3-TICAM-1 pathway in controlling miR-21 levels in extracellular vesicles.

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