

TAK1-TAB1 recombinant protein

TAK1-TAB1, Active

CATALOG # AAA73662	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

TAK1-TAB1; Active; TAK1: MAP3K7; TGF1a; TAB1: MAP3K7IP1; 3'-Tab1; MGC57664; TAK1-TAB1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for TAK1-TAB1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for TAK1-TAB1 recombinant protein	Recombinant human proteins TAK1 (1-303) and TAB1 (437-end), linked by a small peptide (DFGGGGG), were expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The TAK1 gene accession number is, NM_003188; TAB1 is NM_006116. TAK1 is a serine/threonine protein kinase that mediates signaling by TGFbeta and morphogenetic protein (BMP)(1). In response to IL-1, TAK1 forms a kinase complex with TAB1 and this complex is required for the activation of nuclear factor kappa B (NfkappaB). TAK1 can also activate MAPK8/JNK and MAP2K4/MKK4 and thus play a role in the cell response to environmental stress. Tak1 is essential for thymocyte development and activation and deletion of TAK1 prevents maturation of single-positive thymocytes displaying CD4 or CD8 (2). Thymocytes lacking TAK1 fail to activate NfkappaB and JNK and are prone to apoptosis upon stimulation.
Product Categories/Family for TAK1-TAB1 recombinant protein	Protein Kinases; AKT/PKB Pathway; Angiogenesis; Cancer; Cell Cycle; Cellular Stress; ERK/MAPK Pathway; Inflammation; JAK/STAT Pathway; JNK/SAPK Pathway; NfκB Pathway; Ser/Thr Kinases; WNT Signaling

References

- 1.Yamaguchi, K. et al: Identification of a member of the MAPKKK family as a potential mediator of TGF-beta signal transduction. Science 270: 2008-2011, 1995.
- 2.Liu, H.-H. et al: Essential role of TAK1 in thymocyte development and activation. Proc. Nat. Acad. Sci. 103: 11677-11682, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_003188](#)

Molecular Weight

~74kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tak1-tab1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73662>