

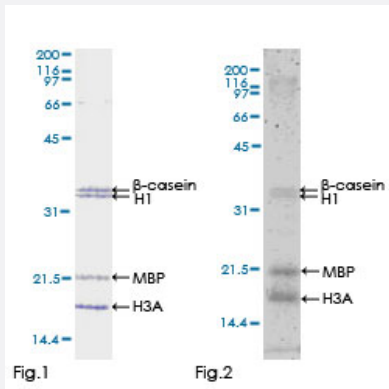
Full-Length

MAP3K7 (Human) Recombinant Protein (P01)

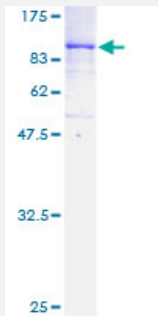
Catalog # H00006885-P01

Size 25 ug, 10 ug

Applications



Kinase Assay



Specification

Product Description

Human MAP3K7 full-length ORF (AAH17715, 1 a.a. - 579 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence	MSTASAASSSSSSSAGEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESERKAFVELRQLSRVNHHPNMVLYGACLNPNVCLVMEYAEGGSLYNVLHGAELPPYYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRLKPPNLLL VAGGTVLKICDFGTACDIQTHMTNNKGSAAWMAPEVFEGSNYSEKCDVFSWGILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQYPCQYSDEGQSNSATSTGSFMDIASTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQSESGRSLSGASRGSSVESLPPTSEGKRMSADMSEIEARIAATTGNGQPRRRSIQDLTVTGTEPGQVSSRSSSPSVRMITTSIPTSEKPTRSHPWTPDDSTDNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKDQQNTSRLVQEHEKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQGTS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	89.43
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Kinase Assay
[Protocol Download](#)
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAP3K7

Entrez GeneID [6885](#)

GeneBank Accession#	BC017715
Protein Accession#	AAH17715
Gene Name	MAP3K7
Gene Alias	TAK1, TGF1a
Gene Description	mitogen-activated protein kinase kinase kinase 7
Omim ID	602614
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]
Other Designations	OTTHUMP00000016870 OTTHUMP00000016871 OTTHUMP00000016872 OTTHUMP00000016873 TGF-beta activated kinase 1 transforming growth factor-beta-activated kinase 1

Publication Reference

- [Fibroblast Growth Factor Receptor 3 Interacts with and Activates TGFβ-Activated Kinase 1 Tyrosine Phosphorylation and NFκB Signaling in Multiple Myeloma and Bladder Cancer.](#)

Salazar L, Kashiwada T, Krejci P, Meyer AN, Casale M, Hollowell M, Wilcox WR, Donoghue DJ, Thompson LM.
PLoS One 2014 Jan; 9(1):e86470.

Application: IP-WB, WB-Tr, Human, LP1, KMS-11, MGHU3, 8226, HEK293 cells

- [CaMKII promotes TLR-triggered proinflammatory cytokine and type I interferon production by directly binding and activating TAK1 and IRF3 in macrophages.](#)

Liu X, Yao M, Li N, Wang C, Zheng Y, Cao X.
Blood 2008 Sep; 112(13):4961.

Application: KA, Recombinant protein

- [The type I TGF-β receptor engages TRAF6 to activate TAK1 in a receptor kinase-independent manner.](#)

Sorrentino A, Thakur N, Grimsby S, Marcusson A, von Bulow V, Schuster N, Zhang S, Heldin CH, Landstrom M.
Nature Cell Biology 2008 Oct; 10(10):1199.

Application: Func, Recombinant protein

Pathway

- [Adherens junction](#)
- [MAPK signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Arthritis](#)
- [Crohn Disease](#)
- [Genetic Predisposition to Disease](#)
- [Inflammatory Bowel Diseases](#)
- [Narcolepsy](#)
- [Tobacco Use Disorder](#)