

MAP3K8/COT recombinant protein

Recombinant MAP3K8 (30-397)/COT protein

CATALOG # AAA60250	HOST Baculovirus
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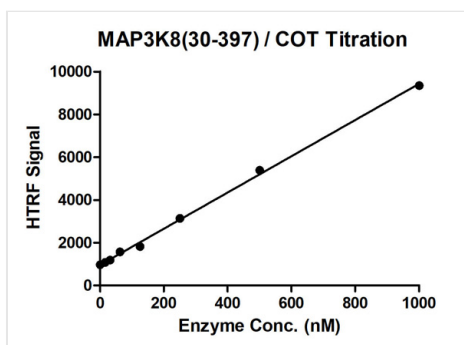
PRODUCT SYNONYMS

MAP3K8/COT; Recombinant MAP3K8 (30-397)/COT protein; (Mitogen-Activated Protein Kinase Kinase Kinase 8; MAP3K8/COT recombinant protein

PRODUCT SPECIFICATIONS

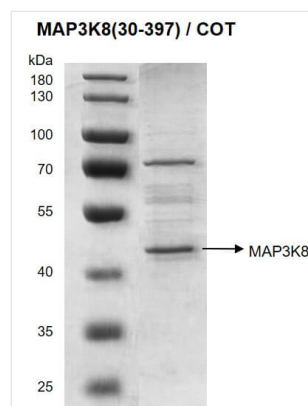
Host	Baculovirus
Form/Format	Recombinant MAP3K8/COT (30-397) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant MAP3K8/COT (30-397) protein that includes amino acids 30-397 of human MAP3K8 protein (accession number NP_001231063.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

HTRF assay for MAP3K8 / COT (30-397) activity 1 μ M STK S3 substrate was incubated with different concentrations of MAP3K8 / COT (30-397) protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. Then 10 μ l detection reagents containing STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant MAP3K8 / COT (30-397) protein 10% SDS-PAGE with Coomassie staining MW: 42.8 kDa Purity: >50%

ADDITIONAL INFORMATION

Related Product Information for MAP3K8/COT recombinant protein	Background: MAP3K8 (Mitogen-Activated Protein Kinase Kinase Kinase 8) is an oncogene that encodes a member of the serine/threonine protein kinase family. The encoded protein localizes to the cytoplasm and can activate both the MAP kinase and JNK kinase pathways. It also involved in the regulation of T-helper cell differentiation and IFNG expression in T-cells and involved in mediating host resistance to bacterial infection through negative regulation of type I interferon (IFN) production. In vitro>, MAP3K8 activates MAPK/ERK pathway in response to IL1 in an IRAK1-independent manner and leading to up-regulation of IL8 and CCL4 and transduces CD40 and TNFRSF1A signals that activate ERK in B-cells and macrophages. Thus MAP3K8 may play a role in the regulation of immunoglobulin production and may also play a role in the transduction of TNF signals that activate JNK and NF-kappa-B in some cell types. In adipocytes, MAP3K8 activates MAPK/ERK pathway in an IKKB-dependent manner in response to IL1B and TNF.
Product Categories/Family for MAP3K8/COT recombinant protein	Recombinant Proteins; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	346644795
NCBI GeneID	1326
NCBI Accession #	NP_001231063.1
NCBI GenBank Nucleotide #	NM_001244134.1
UniProt Accession #	P41279; Q14275; Q5T855; Q9HC81; A8K2Q5; D3DRX1
Molecular Weight	52,925 Da
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase 8
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase 8
NCBI Official Symbol	MAP3K8
NCBI Official Synonym Symbols	COT; EST; ESTF; TPL2; MEKK8; Tpl-2; c-COT
NCBI Protein Information	mitogen-activated protein kinase kinase kinase 8; proto-oncogene c-Cot; tumor progression locus 2; Ewing sarcoma transformant; cot (cancer Osaka thyroid) oncogene; proto-oncogene serine/threonine protein kinase
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 8
UniProt Gene Name	MAP3K8
UniProt Synonym Gene Names	COT; ESTF; TPL-2
UniProt Entry Name	M3K8_HUMAN

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.