

TAK1(Phospho-Thr184 + Thr187) Antibody FITC Conjugated

Catalog No: #C04708F

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	TAK1(Phospho-Thr184 + Thr187) Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF
Species Reactivity	HuB MsB RtB B B B B B
Immunogen Description	KLH conjugated synthetic phosphopeptide aa 170-192 605 derived from human TAK1 around the phosphorylation site of Thr184 187
Conjugates	FITC
Target Name	TAK1 Thr184 + Thr187
Other Names	TAK1; MEKK7; TGF1a; Mitogen-activated protein kinase kinase kinase 7; Transforming growth factor-beta-activated kinase 1; TGF-beta-activated kinase 1; MAP3K7
Accession No.	Swiss-Prot#O43318NCBI Gene ID6885
Uniprot	O43318
GeneID	6885;
Excitation Emission	494nm 518nm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

IF=1:50-200B

Background

Serine threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signal transduction of TRAF6, various cytokines including interleukin-1 (IL-1), transforming growth factor-beta (TGFB), TGFB-related factors like BMP2 and BMP4, toll-like receptors (TLR), tumor necrosis factor receptor CD40 and B-cell receptor (BCR). Ceramides are also able to activate MAP3K7 TAK1. Once activated, acts as an upstream activator of the MKK JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K1 MEK1, MAP2K3 MKK3, MAP2K6 MKK6 and MAP2K7 MKK7. These MAP2Ks in turn activate p38 MAPKs, c-jun N-terminal kinases (JNKs) and I-kappa-B kinase complex (IKK). Both p38 MAPK and JNK pathways control the transcription factors activator protein-1 (AP-1), while nuclear factor-kappa B is activated by IKK. MAP3K7 activates also IKBKB and MAPK8 JNK1 in response to TRAF6 signaling and mediates BMP2-induced apoptosis. In osmotic stress signaling, plays a major role in the activation of MAPK8 JNK1, but not that of NF-kappa-B. Promotes TRIM5 capsid-specific restriction activity.

Note: This product is for in vitro research use only