TAK1 (Phospho-Thr184) Antibody

Catalog No: #12153

Package Size: #12153-1 50ul #12153-2 100ul



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

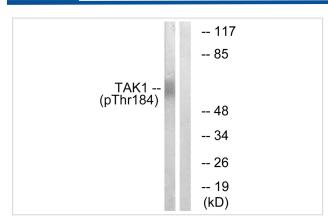
Host Species Rabbit Clonality Polyclonal Purification Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide. Applications WB Species Reactivity Human;Mouse;Rat Specificity The antibody detects endogenous levels of TAK1 only when phosphorylated at threonine 184. Immunogen Type peptide Immunogen Description Peptide sequence around phosphorylation site of threonine 184 (I-Q-T(p)-H-M) derived from Human TAK1. Conjugates Unconjugated Target Name TAK1 Modification Phospho Other Names EC 2.7.11.25; M3K7; MAP3K7; Mitogen-activated protein kinase kinase 7; TGF-beta- activated kinase 1; transforming growth factor-beta-activated kinase 1; kinase TAK1 Accession No. Swiss-Prot#:O43318;NCBI Gene#:6885 SDS-PAGE MW 65kd Cnocentration 1.0mg/ml	Description	TAKA (Dheanha Thranda) Antibodu
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Formulation Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azid	Concentration	1.0mg/ml
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Application Details

Western blotting: 1:500~1:3000

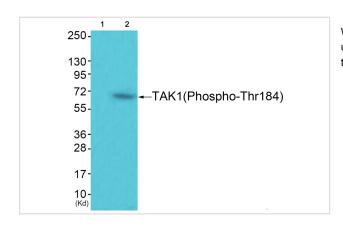
Images

Storage



Western blot analysis of extracts from HepG2 cells, treated with TNF (20ng/ml, 5mins), using TAK1 (Phospho-Thr184) antibody #12153. The lane on the right is treated with the synthesized peptide.

and 50% glycerol.
Store at -20°C



Western blot analysis of extracts from 293 cells (Lane 2), using TAK1 (Phospho-Thr184) Antibody #12153. The lane on the left is treated with synthesized peptide.

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.

Published Papers

el at., PGC-1β suppresses saturated fatty acid-induced macrophage inflammation by inhibiting TAK1 activation. In IUBMB Life on 2016 Feb by Hongen Chen, Yan Liu, et al..PMID: 26748475

, , (2016)

PMID:26748475

Note: This product is for in vitro research use only and is not intended for use in humans or animals.