Datasheet for ABIN5650874

anti-TR4 antibody (AA 400-500) (Alkaline Phosphatase (AP))

2 Images

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Overview

Quantity:	100 µg
Target:	TR4 (NR2C2)
Binding Specificity:	AA 400-500
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TR4 antibody is conjugated to Alkaline Phosphatase (AP)
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptide of Human TAK1 (400-500 aa), conjugated to Keyhole Limpet Haemocyanin (KLH).
Specificity:	Detects 67.2 kDa, 40 kDa band is a possible degradation product.
Purification:	Peptide Affinity Purified

Target Details

Target:	TR4 (NR2C2)
Alternative Name:	TAK1 (NR2C2 Products)
Background:	TAK1 encoded by the gene MAP3K7, is a protein-serine/threonine kinase that is activated by proinflammatory cytokines and in response to physical/chemical stress, including UVR, osmotic- and oxidative stress. It is a mediator of TRAF6 and TGF-β signal transduction, and

Target Details

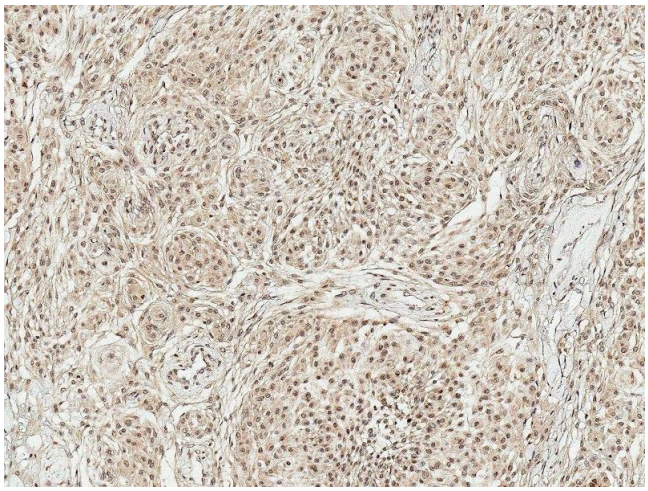
	activates IKBKB and MAPK8 in response to TRAF6 signalling. It also stimulates NFκB activation and activation of the p38 MAPK pathway. It is responsible for controlling a variety of cell functions such as transcription and apoptosis. TAK1 is important for TGF-β1 regulation of MMP9 and the metastatic potential of certain breast cancer cell lines.
Gene ID:	6885
NCBI Accession:	NP_003179
UniProt:	O43318
Pathways:	TCR Signaling, Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Tube Formation, Toll-Like Receptors Cascades

Application Details

Application Notes:	• WB (1:1000) • IHC (1:50) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5650874 was sufficient for detection of TAK1 in 15 µg of rat liver cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

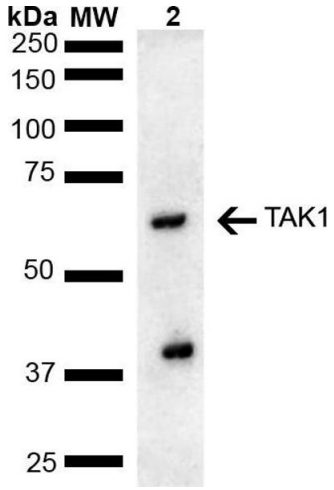
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-TAK1 Polyclonal Antibody (ABIN5650874). Tissue: Brain. Species: Human. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-TAK1 Polyclonal Antibody (ABIN5650874) at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 10X.



Western Blotting

Image 2. Western blot analysis of Rat liver lysate showing detection of ~67.2 kDa TAK1 protein using Rabbit Anti-TAK1 Polyclonal Antibody (ABIN5650874). Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat liver lysate. Load: 15 µg. Block: 5 % Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-TAK1 Polyclonal Antibody (ABIN5650874) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit HRP:IgG at 1:4000 for 1 hour at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~67.2 kDa. Other Band(s): ~40 kDa potential degradation product.