Datasheet for ABIN7169187

anti-TAO Kinase 1 (TAOK1) (AA 400-659) antibody

3 Images

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Overview

Quantity:	100 µL
Target:	TAO Kinase 1 (TAOK1)
Binding Specificity:	AA 400-659
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase TAO1 protein (400-659AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	TAO Kinase 1 (TAOK1)
Alternative Name:	TAOK1 (TAOK1 Products)
Background:	Background: Serine/threonine-protein kinase involved in various processes such as p38/MAPK14 stress-activated MAPK cascade, DNA damage response and regulation of

Target Details

	cytoskeleton stability. Phosphorylates MAP2K3, MAP2K6 and MARK2. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade by mediating phosphorylation and subsequent activation of the upstream MAP2K3 and MAP2K6 kinases. Involved in G-protein coupled receptor signaling to p38/MAPK14. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of MAP2K3 and MAP2K6. Acts as a regulator of cytoskeleton stability by phosphorylating \'Thr-208\' of MARK2, leading to activate MARK2 kinase activity and subsequent phosphorylation and detachment of MAPT/TAU from microtubules. Also acts as a regulator of apoptosis: regulates apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation via activation of the MAPK8/JNK cascade. Aliases: 2810468K05Rik antibody, AU020252 antibody, D130018F14Rik antibody, EC 2.7.11.1 antibody, FLJ14314 antibody, hKFC B antibody, hKFC-B antibody, KIAA1361 antibody, Kinase from chicken homolog B antibody, MAP3K16 antibody, MARK kinase antibody, MARKK antibody, MGC29021 antibody, Microtubule affinity regulating kinase kinase antibody, mKIAA1361 antibody, Prostate-derived sterile 20-like kinase 2 antibody, PSK2 antibody, Serine/threonine kinase TAO1 antibody, Serine/threonine protein kinase TAO1 antibody, Serine/threonine protein kinase TAO1 homolog antibody, Serine/threonine-protein kinase TAO1 antibody, STE20 like kinase antibody, STE20 like kinase PSK2 antibody, STE20-like kinase PSK2 antibody, TAO kinase 1 antibody, Taok1 antibody, TAOK1_HUMAN antibody, Thousand and one amino acid protein 1 antibody
UniProt:	Q7L7X3

Application Details

Application Notes:	Recommended dilution: WB:1:1000-1:5000, IHC:1:200-1:500, IF:1:50-1:200,
Restrictions:	For Research Use only

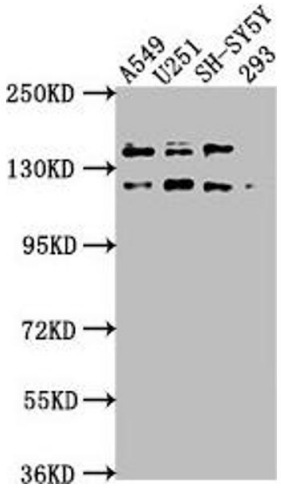
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

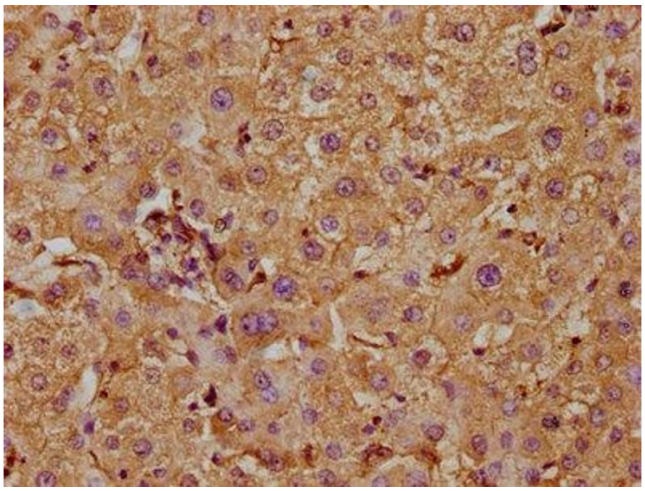
	handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



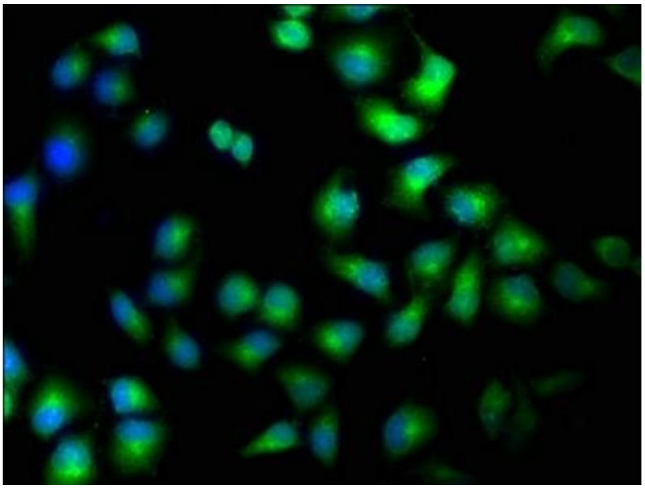
Western Blotting

Image 1. Western Blot Positive WB detected in: A549 whole cell lysate, U251 whole cell lysate, SH-SY5Y whole cell lysate, 293 whole cell lysate All lanes: TAOK1 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 117, 47, 98 kDa Observed band size: 117 kDa



Immunohistochemistry

Image 2. IHC image of ABIN7169187 diluted at 1:300 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence

Image 3. Immunofluorescence staining of Hela cells with ABIN7169187 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).