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# anti-TAO Kinase 1 (TAOK1) (AA 620-650) antibody



Image



#### Overview

Target:

Quantity:	400 μL
Target:	TAO Kinase 1 (TAOK1)
Binding Specificity:	AA 620-650
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	This TAOK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 620-650 amino acids from the Central region of human TAOK1.
Clone:	RB9765
Isotype:	lg Fraction
Predicted Reactivity:	X, M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by
	dialysis against PBS.

TAO Kinase 1 (TAOK1)

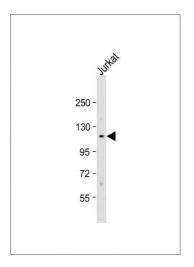
## Target Details

Alternative Name:	TAOK1 (TAOK1 Products)
Background:	TAOK1 is an upstream activator of Mark. TAOK1 phosphorylated Mark on a threonine within its activation loop. In brain, TAOK1 also phosphorylated a fraction of Mark on a nearby serine, and
	this phosphorylation inhibited Mark activity. In cells, TAOK1 activity enhanced microtubule
	dynamics through activation of Mark and led to phosphorylation and detachment of
	microtubule-associated proteins from microtubules. TAOK1 also activated JNK in vitro.
	Overexpression of TAOK1 in a human nonsmall cell lung carcinoma cell line induced apoptotic
	morphologic changes, including cell contraction, membrane blebbing, and apoptotic body
	formation. Apoptotic stimuli increased the catalytic activity of endogenous TAOK1 and JNK,
	and dominant-negative JNK or JNK inhibition blocked the apoptotic morphologic responses to
	TAOK1. TAOK1 also stimulated cleavage and activation of ROCK1 by caspases, leading to cell
	contraction and membrane blebbing. TAOK1 was itself a substrate for caspase-3. TAOK1 is
	indeed involved in the execution phase of apoptosis.
Molecular Weight:	116070
Gene ID:	57551
NCBI Accession:	NP_065842, NP_079418
UniProt:	Q7L7X3
Application Details	
Application Notes:	WB: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in sma
	aliquots to prevent freeze-thaw cycles.

Expiry Date:

6 months

### Images



#### **Western Blotting**

**Image 1.** Anti-TAOK1 Antibody (Center) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 116 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.