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Datasheet for ABIN6257734

## anti-TAO Kinase 2 antibody (Internal Region)

### 2 Images

#### Overview

Quantity:	100 µL
Target:	TAO Kinase 2 (TAOK2)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TAO Kinase 2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

#### Product Details

Immunogen:	A synthesized peptide derived from human TAO2, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	TAO2 Antibody detects endogenous levels of total TAO2.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

#### Target Details

Target:	TAO Kinase 2 (TAOK2)
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## Target Details

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Alternative Name: TAOK2 ([TAOK2 Products](#))

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**Background:** Description: Serine/threonine-protein kinase involved in different processes such as membrane blebbing and apoptotic bodies formation DNA damage response and MAPK14/p38 MAPK stress-activated MAPK cascade. Phosphorylates itself, MBP, activated MAPK8, MAP2K3, MAP2K6 and tubulins. Activates the MAPK14/p38 MAPK signaling pathway through the specific activation and phosphorylation of the upstream MAP2K3 and MAP2K6 kinases. 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 upstream MAP2K3 and MAP2K6 kinases. Isoform 1, but not isoform 2, plays a role in apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation. This function, which requires the activation of MAPK8/JNK and nuclear localization of C-terminally truncated isoform 1, may be linked to the mitochondrial CASP9-associated death pathway. Isoform 1 binds to microtubules and affects their organization and stability independently of its kinase activity. Prevents MAP3K7-mediated activation of CHUK, and thus NF-kappa-B activation, but not that of MAPK8/JNK. May play a role in the osmotic stress-MAPK8 pathway. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization. Both isoforms are involved in MAPK14 phosphorylation.

Gene: TAOK2

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Molecular Weight: 120 kDa

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Gene ID: 9344

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UniProt: [Q9UL54](#)

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Pathways: [Cell-Cell Junction Organization](#)

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## Application Details

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Application Notes: WB 1:500-1:2000, ELISA(peptide) 1:20000-1:40000

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Restrictions: For Research Use only

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## Handling

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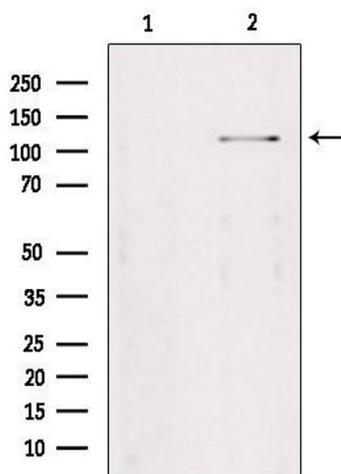
Format: Liquid

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## Handling

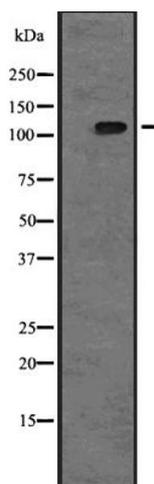
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Expiry Date:	12 months

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts from HeLa, using TAOK2 Antibody. Lane 1 was treated with the blocking peptide.



### Western Blotting

**Image 2.** Western blot analysis of TAOK2 expression in A431 whole cell lysate, The lane on the left is treated with the antigen-specific peptide.