Datasheet for ABIN7180001

anti-DAPK3 antibody (Thr265)

2 Images

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Overview

Quantity:	100 µL
Target:	DAPK3
Binding Specificity:	Thr265
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DAPK3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human DAPK3 around the phosphorylation site of threonine 265 (R-M-T(p)-I-A).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	DAPK3
Alternative Name:	DAPK3 (DAPK3 Products)

Target Details

Background:	Background: Serine/threonine kinase which is involved in the regulation of apoptosis, autophagy, transcription, translation, actin cytoskeleton reorganization, cell motility, smooth muscle contraction, and mitosis, particularly cytokinesis. Regulates both type I apoptotic and type II autophagic cell deaths signal, depending on the cellular setting. The former is caspase-dependent, while the latter is caspase-independent and is characterized by the accumulation of autophagic vesicles. Regulates myosin phosphorylation in both smooth muscle and non-muscle cells. In smooth muscle, regulates myosin either directly by phosphorylating MYL12B and MYL9 or through inhibition of smooth muscle myosin phosphatase (SMPP1M) via phosphorylation of PPP1R12A, and the inhibition of SMPP1M functions to enhance muscle responsiveness to Ca2+ and promote a contractile state. Enhances transcription from AR-responsive promoters in a hormone- and kinase-dependent manner. Phosphorylates STAT3 and enhances its transcriptional activity. Positively regulates the canonical Wnt/beta-catenin signaling through interaction with NLK and TCF7L2. Can disrupt the NLK-TCF7L2 complex thereby influencing the phosphorylation of TCF7L2 by NLK. Phosphorylates histone H3 on 'Thr-11' at centromeres during mitosis. Involved in the formation of promyelocytic leukemia protein nuclear body (PML-NB), one of many subnuclear domains in the eukaryotic cell nucleus, and which is involved in oncogenesis and viral infection. Phosphorylates RPL13A on 'Ser-77' upon interferon-gamma activation which is causing RPL13A release from the ribosome, its association with the GAIT complex and its subsequent involvement in transcript-selective translation inhibition. Isoform 2 can phosphorylate myosin, PPP1R12A and MYL12B. Kawai T., Mol. Cell. Biol. 18:1642-1651(1998). Murata-Hori M., FEBS Lett. 451:81-84(1999). The MGC Project Team, Genome Res. 14:2121-2127(2004). Aliases: DAP kinase 3 antibody, DAP like kinase antibody, DAP-like kinase antibody, Dapk 3 antibody, DAPK3 antibody, DAPK3_HUMAN antibody, Death associated kinase 3 antibody, Death associated protein kinase 3 antibody, Death-associated protein kinase 3 antibody, Dlk antibody, EC 2.7.11.1 antibody, FLJ36473 antibody, MYPT1 kinase antibody, ZIP antibody, ZIP kinase antibody, ZIP kinase isoform antibody, ZIP-kinase antibody, ZIPK antibody, zipper-interacting protein kinase antibody
UniProt:	O43293

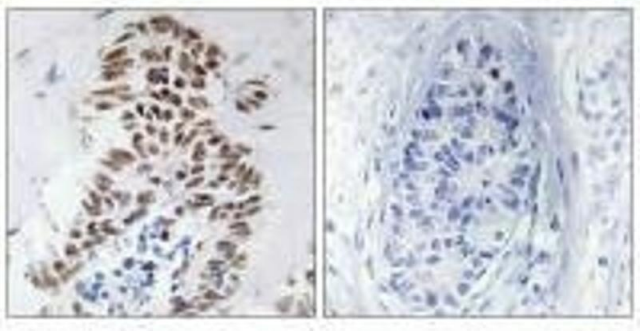
Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
Restrictions:	For Research Use only

Handling

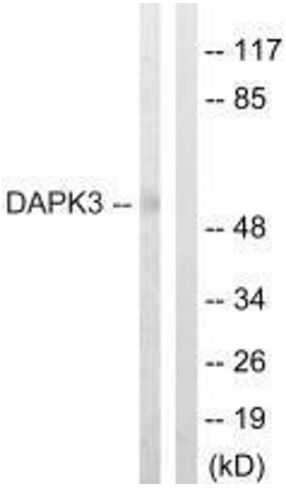
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using DAPK3 (Ab-265) antibody.



Western Blotting

Image 2. Western blot analysis of extracts from HuvEc cells, using DAPK3 (Ab-265) antibody.