

DAPK3 Antibody

Catalog No: #33158



Package Size: #33158-1 50ul #33158-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

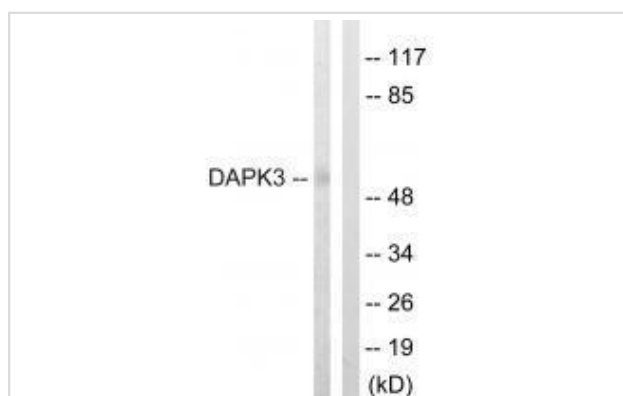
Product Name	DAPK3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous levels of total DAPK3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human DAPK3 around the phosphorylation site of threonine 265 (R-M-T(p)-I-A).
Conjugates	Unconjugated
Target Name	DAPK3
Other Names	DAP kinase 3; DAP- like kinase; Death-associated protein kinase 3; Dlk; EC 2.7.11.1
Accession No.	Swiss-Prot: O43293NCBI Gene ID: 1613
SDS-PAGE MW	52kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

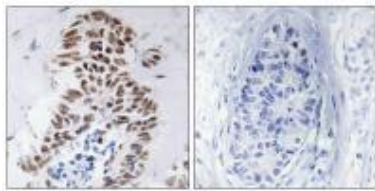
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HuvEc cells, using DAPK3 (Ab-265) antibody #33158.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using DAPK3 (Ab-265) antibody #33158.

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).

Published Papers

et al., Expression and localization of calmodulin-related proteins in brain, heart and kidney from spontaneously hypertensive rats. In Biochem Biophys Res Commun on 2016 Jan 15 by Satoshi Kameshima, Muneyoshi Okada et al.. PMID:26697749, , (2016)

[PMID:26697749](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.