SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Mouse Anti-DAPK1 antibody

SLM-51758M

Product Name	DAPK1
Chinese Name	死亡相关蛋白激酶 1 单克隆抗体
Alias	DAP Kinase 1; DAK1; DAP K1; DAPK 1; DAPK; Death Associated Protein Kinase 1; Death Associated Protein Kinase 1; Death-associated protein kinase 1; DKFZp781I035; DAPK1_HUMAN
Research Area	Tumour Cell biology Signal transduction Apoptosis
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	F5T7
React Species	Human, (predicted: Mouse,)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	160kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DAPK1
Lsotype	IgG2a,κ
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	DAPK1 expression is frequently lost in human carcinomas and B-cell leukemia, and lower levels of expression correlates with high rates of

metastasis. The loss of DAPK expression provides a link between suppression of apoptosis and metastasis. DAPK1 is thought be involved in an early apoptotic checkpoint which eliminates premalignant cells from cancer formation. Studies in bladder cancer patients have also shown that hypermethylation of DAPK1 correlates to high recurrence rates and thus DAPK1 may be used as a prognostic marker. DAPK1 is also reportedly a molecular regulator of neuronal death in epilepsy.

Function:
Calcium/calmodulin-dependent serine/threonine kinase which acts as a positive regulator of apoptosis.

Subunit:
Interacts with KLHL20. Interacts (via death domain) with MAPK1 and MAPK3. Interacts with MAP1B (via N-terminus). Interacts (via death domain) with UNC5B (via death domain). Interacts with PRKD1 in an oxidative stress-regulated manner. Interacts with PIN1, PDCD6, BECN1, GRINB, TSC2 and STX1A. Interacts (via kinase domain) with DAPK3 (via kinase domain).

Subcellular Location:
Cytoplasm. Colocalizes with the actin filament system.

Tissue Specificity:
Isoform 2 is expressed in normal intestinal tissue as well as in colorectal carcinomas.

Post-translational modifications:
Ubiquitinated by the BCR(KLHL20) E3 ubiquitin ligase complex, leading to its degradation by the proteasome.

Similarity:
Belongs to the protein kinase superfamily.
CAMK Ser/Thr protein kinase family.
DAP kinase subfamily.

SWISS:
P53355

Gene ID:
1612

Database links:

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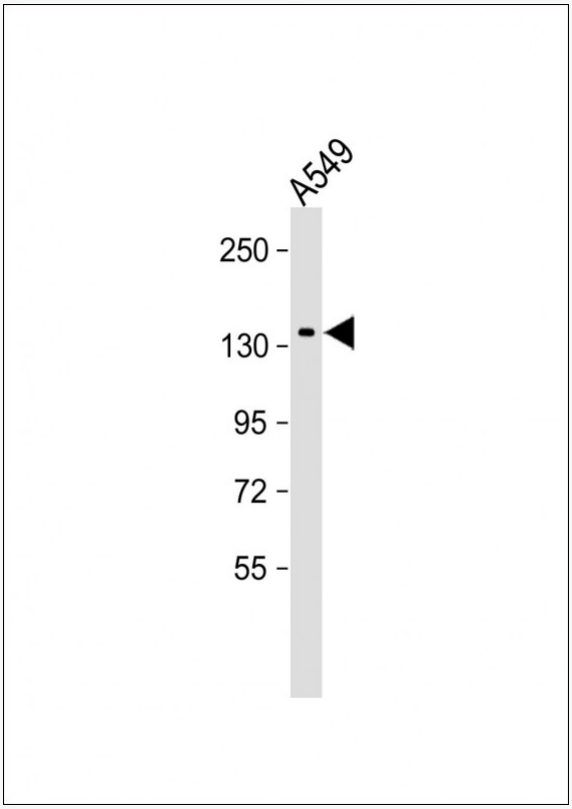
Entrez Gene: 1612 Human

Entrez Gene: 69635 Mouse

SwissProt: P53355 Human

SwissProt: Q80YE7 Mouse

Product Picture



Sample:

Lane 1: A549 cell lysates

Primary: Anti-DAPK1 (SLM-51758M) at 1/4000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 160 kD

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Observed band size: 160 kD