

TLK1 rabbit pAb

Cat No.:ES8116

For research use only

Overview

Product Name	TLK1 rabbit pAb
Host species	Rabbit
Applications	IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Immunofluorescence: 1/200 - 1/1000. ELISA:
	1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from human TLK1. AA
	range:730-779
Specificity	TLK1 Polyclonal Antibody detects endogenous levels
	of TLK1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Serine/threonine-protein kinase tousled-like 1
Gene Name	TLK1
Cellular localization	
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	9874
Human Swiss-Prot Number	Q9UKI8
Alternative Names	TLK1; KIAA0137; Serine/threonine-protein kinase
	tousled-like 1; PKU-beta; Tousled-like kinase 1
Background	catalytic activity:ATP + a protein = ADP + a
	phosphoprotein.,cofactor:Magnesium.,enzyme
	regulation:Cell-cycle regulated, maximal activity in
	S-phase. Inactivated by phosphorylation at Ser-743,
	potentially by CHK1., function: Rapidly and
	transiently inhibited by phosphorylation following



+86-27-59760950

ELKbio@ELKbiotech.com

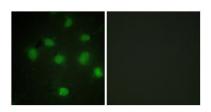
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23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C



the generation of DNA double-stranded breaks during S-phase. This is cell cycle checkpoint and ATM-pathway dependent and appears to regulate processes involved in chromatin assembly. Isoform 3 phosphorylates and enhances the stability of the t-SNARE SNAP23, augmenting its assembly with syntaxin. Isoform 3 protects the cells from the ionizing radiation by faciliting the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10'., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family., similarity: Contains 1 protein kinase domain., subunit: Heterodimerizes with TLK2. Interacts with ASF1A and ASF1B.,tissue specificity:Widely expressed. Present in fetal placenta, liver, kidney and pancreas but not heart or skeletal muscle. Also found in adult cell lines. Isoform 3 is ubiquitously expressed in all tissues examined.,

Immunofluorescence analysis of COS7 cells, using TLK1 Antibody. The picture on the right is blocked with the synthesized peptide.





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