Best Tools for immunology Research

TLK1 Polyclonal Antibody

Catalog No :	YT4673
Reactivity :	Human;Mouse
Applications :	IF;ELISA
Target :	TLK1
Gene Name :	TLK1
Protein Name :	Serine/threonine-protein kinase tousled-like 1
Human Gene Id :	9874
Human Swiss Prot No :	Q9UKI8
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	87kD
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 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.,

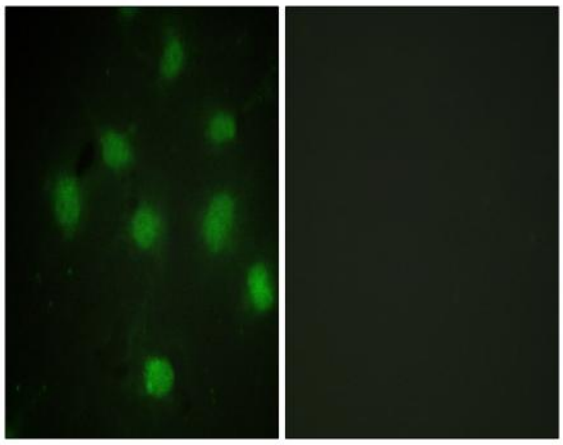
Function : catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Cell-cycle regulated, maximal activity in S-phase. Inactivated by phosphorylation at Ser-743, potentially by CHK1.,function:Rapidly and transiently inhibited by phosphorylation following the 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 d

Sort : 17195

Host : Rabbit

Modifications : Unmodified

Products Images



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