

TLK2 Polyclonal Antibody

Catalog No :	YT4674
Reactivity :	Human;Mouse
Applications :	WB;ELISA;IHC
Target :	TLK2
Gene Name :	TLK2
Protein Name :	Serine/threonine-protein kinase tousel-like 2
Human Gene Id :	11011
Human Swiss Prot No :	Q86UE8
Mouse Gene Id :	24086
Mouse Swiss Prot No :	O55047
Immunogen :	The antiserum was produced against synthesized peptide derived from human TLK2. AA range:191-240
Specificity :	TLK2 Polyclonal Antibody detects endogenous levels of TLK2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
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)

Observed Band : 90kD

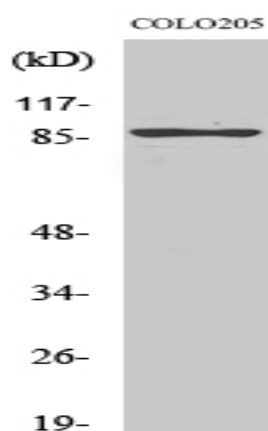
Background : This gene encodes a nuclear serine/threonine kinase that was first identified in Arabidopsis. The encoded protein is thought to function in the regulation of chromatin assembly in the S phase of the cell cycle by regulating the levels of a histone H3/H4 chaperone. This protein is associated with double-strand break repair of DNA damage caused by radiation. Pseudogenes of this gene are present on chromosomes 10 and 17. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013],

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-750, 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.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subunit:Heterodimerizes with TLK1. Interacts with ASF1A and ASF1B.,tissue specificity:Widely expressed. Present in fetal placenta, liver, kidney, pancreas, heart and skeletal muscle. Also found in adult cell lines.,

Subcellular Location : Nucleus. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. Colocalizes with the cytoplasmic intermediate filament system during the G1 phase of the cell cycle. Present in the perinuclear region at S phase and in the nucleus at late G2.

Expression : Ubiquitous. Detected in placenta, fetal liver, kidney, pancreas, heart and skeletal muscle. Highly expressed in testis. Detected in spleen, thymus, colon, ovary, small intestine, prostate and peripheral blood leukocytes.

Products Images



Western Blot analysis of various cells using TLK2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

