

TLK1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51568

Product Information

Application	WB
Primary Accession	Q9UKI8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86700

Additional Information

Gene ID	9874
Other Names	Serine/threonine-protein kinase tousled-like 1, PKU-beta, Tousled-like kinase 1, TLK1, KIAA0137
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TLK1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	TLK1
Synonyms	KIAA0137
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 facilitating the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10'.
Cellular Location	Nucleus
Tissue Location	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.

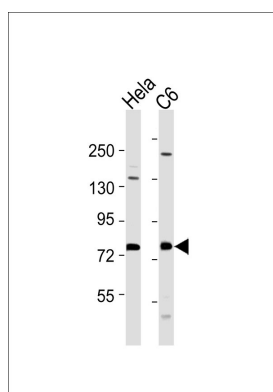
Background

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 facilitating the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10'.

References

Yamakawa A.,et al.Gene 202:193-201(1997).
Sillje H.H.W.,et al.EMBO J. 18:5691-5702(1999).
Cabaniols J.-P.,et al.Mol. Biol. Cell 10:4033-4041(1999).
Nagase T.,et al.DNA Res. 2:167-174(1995).
Nakajima D.,et al.DNA Res. 9:99-106(2002).

Images



All lanes : Anti-TLK1 Antibody at 1:1000 dilution Lane 1:
Hela whole cell lysates Lane 2: C6 whole cell lysates
Lysates/proteins at 20 µg per lane. Secondary Goat
Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000
dilution Predicted band size : 87 kDa Blocking/Dilution
buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.