

# TLK1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51568

## Product Information

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Application	WB
Primary Accession	<a href="#">Q9UKI8</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86700

## Additional Information

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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 derived from human TLK1
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

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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

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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'.

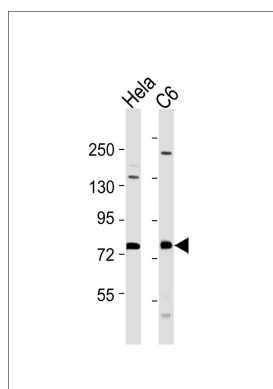
## References

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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

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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'.