

Rabbit anti-Human, Mouse TLK1 Polyclonal Antibody | anti-TLK1 antibody

Phospho-TLK1 (Ser743) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321407	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

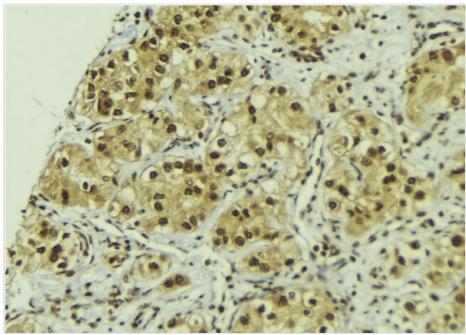
PRODUCT SYNONYMS

TLK1; Polyclonal Antibody; Phospho-TLK1 (Ser743) Antibody; PKU beta; PKU-beta; serine threonine protein kinase; Serine/threonine protein kinase tousled like 1; Serine/threonine-protein kinase tousled-like 1; SNARE protein kinase SNAK; Tlk1; TLK1_HUMAN; Tousled like kinase 1; Tousled-like kinase 1; anti-TLK1 antibody

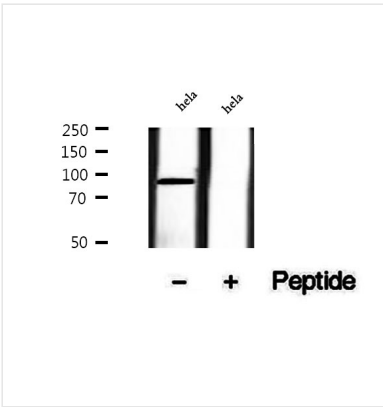
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-TLK1 (Ser743) antibody detects endogenous levels of TLK1.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	718
Applicable Applications for anti-TLK1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TLK1 around the phosphorylation site of Ser743.
Subcellular Location	Nucleus.
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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser743
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321407 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of hela cells, using Phospho-TLK1 (Ser743) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TLK1 antibody	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'. Subunit Structure: Heterodimerizes with TLK2. Interacts with ASF1A and ASF1B. Similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	211971036
NCBI GeneID	9874
NCBI Accession #	NP_001130026.1
NCBI GenBank Nucleotide #	NM_001136554.1
UniProt Accession #	Q9UKI8; Q14150; Q8N591; Q9NYH2; Q9Y4F6; B3KR15; B4DX87
Molecular Weight	Observed: 86 kDa Predicted: 87 kDa
NCBI Official Full Name	serine/threonine-protein kinase tousled-like 1 isoform 2
NCBI Official Synonym Full Names	tousled like kinase 1
NCBI Official Symbol	TLK1
NCBI Official Synonym Symbols	PKU-beta
NCBI Protein Information	serine/threonine-protein kinase tousled-like 1
UniProt Protein Name	Serine/threonine-protein kinase tousled-like 1
UniProt Gene Name	TLK1
UniProt Synonym Gene Names	KIAA0137

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.