

Rabbit Anti-TLK1/AF350 Conjugated antibody

SL3583R-AF350

Product Name	Anti-TLK1/AF350
Chinese Name	AF350 标记的调节染色体组装激酶 1 抗体
Alias	PKU beta; serine threonine protein kinase; Serine/threonine protein kinase tousled like 1; TLK1; Tousled like kinase 1; TLK1_HUMAN; Serine/threonine-protein kinase tousled-like 1; PKU-beta; Tousled-like kinase 1; KIAA0137.
Research Area	Tumour Chromatin and nuclear signals transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	87kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TLK1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: The protein encoded by this gene is a serine/threonine kinase that may be involved in the regulation of chromatin assembly. The encoded protein is only

active when it is phosphorylated, and this phosphorylation is cell cycle-dependent, with the maximal activity of this protein coming during S phase. The catalytic activity of this protein is diminished by DNA damage and by blockage of DNA replication. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

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:

Heterodimerizes with TLK2. Interacts with ASF1A and ASF1B.

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.

Similarity:

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.

Database links:

[Entrez Gene: 9874](#) Human

[Entrez Gene: 228012](#) Mouse

[Omim: 608438](#) Human

[SwissProt: Q9UKI8](#) Human

[SwissProt: Q8C0V0](#) Mouse

[Unigene: 726093](#) Human

[Unigene: 731668](#) Human

[Unigene: 136511](#) Mouse



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