

Datasheet for ABIN107632
anti-TLK1 antibody (Isoform 1)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	TLK1
Binding Specificity:	AA 737-751, Isoform 1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TLK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 737-751 of human Tlk1 (Tousled-like kinase) protein.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	TLK1
Alternative Name:	Tlk1 (TLK1 Products)
Background:	Tlk-1 (also known as tousled-like kinase, serine/threonine-protein kinase tousled-like 1 and PKU-beta) is a target for Chk1 upon induction of DNA-damage. Tousled-like kinases, first described

Target Details

in Arabidopsis, are nuclear serine/threonine kinases that are potentially involved in the regulation of chromatin assembly. Tlk-1 is 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. Tlk-1 heterodimerizes with Tlk-2. Multiple isoforms of the protein have been detected. Mature Tlk-1 is reported to have an apparent molecular weight of ~86kDa, ~89kDa and ~64kDa corresponding to isoforms 1, 2 and 3 respectively. Synonyms: PKU beta antibody, serine threonine protein kinase antibody, Serine/threonine protein kinase tousled like 1 antibody, TLK1 antibody, Tousled like kinase 1 antibody

Gene ID: 9874, 33636698

UniProt: [Q9UKI8](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 86 kDa, 89 kDa or 64 kDa in size corresponding to isoforms of Tlk-1 by western blotting in the appropriate cell lysate or extract. This antibody reacts with both phosphorylated and non-phosphorylated forms of Tlk-1 at the S743 residue (isoform 1) of the protein.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.60 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C



Western Blotting

Image 1. Western blot using Affinity Purified anti-Tlk-1 antibody shows detection of a band ~64 kDa corresponding to isoform 3 of human Tlk-1 (arrowhead). Specific reactivity with this band is blocked when the antibody is pre-incubated with the immunizing peptide (data not shown). Approximately 30 ug of a HeLa nuclear extract was separated by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:250 for 2h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye 800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results