

Datasheet for ABIN2855507

anti-TLK1 antibody

3 Images

1 Publication

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TLK1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TLK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human TLK1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to TLK1 (tousled-like kinase 1) TLK1 antibody [N2C2], Internal
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	TLK1
Alternative Name:	tousled like kinase 1 (TLK1 Products)

Target Details

Background: The Tousled-like kinases, first described in Arabidopsis, are nuclear serine/threonine kinases that are potentially involved in the regulation of chromatin assembly.[supplied by OMIM]

Cellular Localization: Nucleus

Molecular Weight: 87 kDa

Gene ID: 9874

UniProt: [Q9UKI8](#)

Application Details

Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: 293T
Validation: Overexpression

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.9 mg/mL

Buffer: 0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

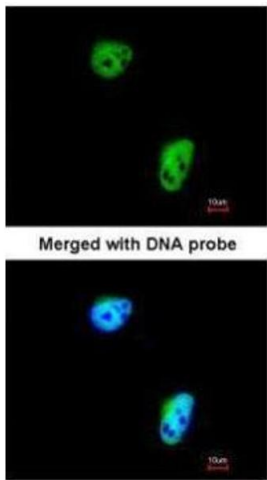
Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

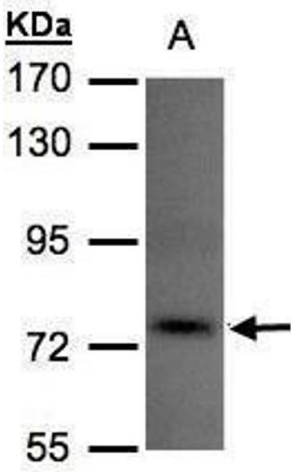
Publications

Product cited in: Wei, Ngo, Wu, Lee: "Phosphorylation of the Ndc80 complex protein, HEC1, by Nek2 kinase modulates chromosome alignment and signaling of the spindle assembly checkpoint." in: **Molecular biology of the cell**, Vol. 22, Issue 19, pp. 3584-94, (2012) ([PubMed](#)).



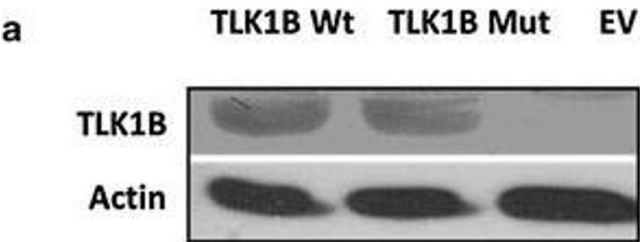
Immunofluorescence

Image 1. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using TLK1, antibody at 1:200 dilution.



Western Blotting

Image 2. WB Image Sample(30 µg of whole cell lysate) A:293T 7.5% SDS PAGE antibody diluted at 1:500



Western Blotting

Image 3. a Overexpression of Wt TLK1B and Mut TLK1B in stably transfected HEK293 cells. b TLK1B Wt and Mut cells or empty vector controls (EV) were treated for 2 h with doxo to promote the Chk1-dpendent phosphorylation of TLK1B (S457). TLK1B S457 phospho specific antibody recognizes only the overexpressed Wt TLK1B and not the Mut TLK1B. Note that the p-TLK1B band seen in the Mut lane corresponds to the endogenous TLK1B and not the transfected TLK1B Mut. c The basal phosphorylation of Rad9 (S328) is enhanced in cells expressing Mut TLK1B with respect to EV or cells expressing Wt TLK1B. d The

phosphorylation of Rad9 (S328) persists in damage resistant Mut TLK1B expressing cells treated with doxo. e
Pattern of Rad9 (S328) phosphorylation after recovery from HU in the cells expressing Mut TLK1B or Wt TLK1B. Note that TLK1B overexpression is unaffected by HU treatment in these cells - figure provided by CiteAb. Source: PMID26860083