

## Product datasheet for **TA319197**

### TLK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:10,000 - 1:50,000, WB: 1:200 - 1:2,000
Reactivity:	Human, Chimpanzee, Dog, Orang-Utan
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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) (isoform 1) protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	tousled like kinase 1
Database Link:	<a href="#">NP_001130026</a> <a href="#">Entrez Gene 100856355 Dog</a> <a href="#">Entrez Gene 9874 Human</a> <a href="#">Q9UK18</a>
Synonyms:	PKU-beta



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**Note:** Tlk-1 (also known as tousel-like kinase, serine/threonine-protein kinase tousel-like 1 and PKU-beta) is a target for Chk1 upon induction of DNA-damage. Tousel-like kinases, first described in Arabadopsis, 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.

**Protein Families:** Druggable Genome, Protein Kinase

**Product images:**



WB using 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). The primary antibody diluted to 1:250 for 2h at RT 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.