

## Recombinant Mouse Tlk1 Protein, Myc/DDK-tagged

**Cat. No.** Tlk1-6449M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length tousel-like kinase 1 (Tlk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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 protects the cells from the ionizing radiation by facilitating the repair of DSBs. In vitro, phosphorylates histone H3 at 'Ser-10'. |
| <b>Molecular Mass</b>   | 87.1 kDa                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                               |

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## GENE INFORMATION

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Gene Name       | Tlk1 tousled-like kinase 1 [ Mus musculus (house mouse) ]                                  |
| Official Symbol | TLK1                                                                                       |
| Synonyms        | TLK1; tousled-like kinase 1; serine/threonine-protein kinase tousled-like 1; 4930545J15Rik |
| Gene ID         | 228012                                                                                     |
| mRNA Refseq     | NM_172664                                                                                  |
| Protein Refseq  | NP_766252                                                                                  |
| UniProt ID      | Q8C0V0                                                                                     |

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