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[Marker Primary Antibody]

Rabbit Anti-TLK1/AF647 Conjugated antibody

Catalog Number: SL3583R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TLK1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human TLK1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human)
Background:	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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	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 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.