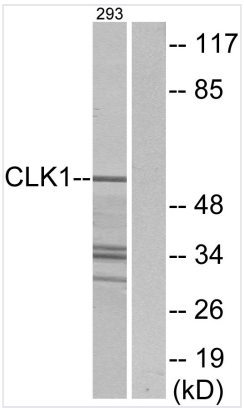
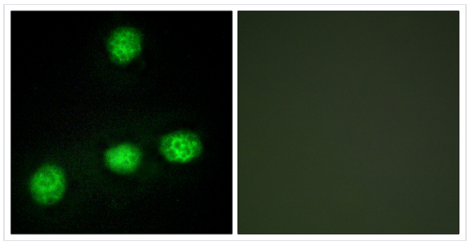
# CLK1 Antibody

## PRODUCT OVERVIEW

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| **Product Name** | CLK1, Antibody |
| **Full Product Name** | CLK1 Antibody |
| **Product Gene Name** | anti-CLK1 antibody |
| **Product Synonym Names** | CDC like kinase 1; CLK; CLK1; Dual specificity protein kinase CLK1; EC 2.7.1.112; EC 2.7.12.1 |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Specificity** | CLK1 antibody detects endogenous levels of total CLK1 protein. |
| **Preparation and Storage** | Store at-20 degree C for 1 year. |
| **Molecular Weight** | 61,757 Da |
| **OMIM** | 601951 |
| **3D Structure** | ModBase 3D Structure for P49759 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from internal of human CLK1. |
| **Product Categories/Family for anti-CLK1 antibody** | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CLK1 antibody** | Western Blot (WB), Immunofluorescence (IF), ELISA (EIA) |
| **Application Notes for anti-CLK1 antibody** | WB: 1:500~1:1000<br>IF: 1:100~1:500<br>ELISA: 1:1000 |
| **Related Product Information for anti-CLK1 antibody** | MBS853849 is an antibody targeting CLK1. Also known as CLK1 Antibody. Reactive in Human, Mouse. |
| **Product References and Citations for anti-CLK1 antibody** | Johnson K.W., J. Biol. Chem. 266:3402-3407(1991). Hanes J.J., J. Mol. Biol. 244:665-672(1994). Olsen J.V., Cell 127:635-648(2006). |
| **Other Notes** | Small volumes of anti-CLK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Testing Data of anti-CLK1 antibody**



**Western Blot (WB) of anti-CLK1 antibody**
Peptide-+ Western blot analysis of extracts from 293 cells, using CLK1 antibody.
Immunofluorescence analysis of HUVEC cells, using CLK1 antibody.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLK1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 241666392 |
| **NCBI GeneID** | 1195 |
| **NCBI Accession #** | NP_001155879.1 |
| **UniProt Primary Accession #** | P49759 |
| **UniProt Secondary Accession #** | Q0P694; Q8N5V8; B4DFW7 |
| **UniProt Related Accession #** | P49759 |
| **GenBank Nucleotide #** | NM_001162407.1 |
| **NCBI Official Full Name** | dual specificity protein kinase CLK1 isoform 2 |
| **NCBI Official Synonym Full Names** | CDC like kinase 1 |
| **NCBI Official Symbol** | CLK1 |
| **NCBI Official Synonym Symbols** | CLK; STY; CLK/STY |
| **UniProt Protein Name** | Dual specificity protein kinase CLK1 |
| **UniProt Synonym Protein Names** | CDC-like kinase 1 |
| **Protein Family** | Dual specificity protein kinase |
| **UniProt Gene Name** | CLK1 |
| **UniProt Synonym Gene Names** | CLK |
| **NCBI Protein Information** | dual specificity protein kinase CLK1 |
| **NCBI Summary for CLK1** | This gene encodes a member of the CDC2-like (or LAMMER) family of dual specificity protein kinases. In the nucleus, the encoded protein phosphorylates serine/arginine-rich proteins involved in pre-mRNA processing, releasing them into the nucleoplasm. The choice of splice sites during pre-mRNA processing may be regulated by the concentration of transacting factors, including serine/arginine rich proteins. Therefore, the encoded protein may play an indirect role in governing splice site selection. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009] |
| **UniProt Comments for CLK1** | Dual specificity kinase acting on both serine/threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex and may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates: SRSF1, SRSF3 and PTPN1. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells and adenovirus E1A pre-mRNA. |

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| **Research Articles on CLK1** | **1.** These results thus reveal a large program of CLK1-regulated periodic alternative splicing intimately associated with cell cycle control. |
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