

# Recombinant Human Dual specificity protein kinase CLK2(CLK2),partial

Catalog No: #AP77867

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Package Size: #AP77867-1 20ug #AP77867-2 100ug #AP77867-3 1mg

## Description

Product Name	Recombinant Human Dual specificity protein kinase CLK2(CLK2),partial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 85% as determined by SDS-PAGE.
Immunogen Description	Expression Region:138-499aaSequence Info:Partial
Other Names	CDC-like kinase 2
Accession No.	P49760
Uniprot	P49760
GeneID	1196;
Calculated MW	56.7 kDa
Tag Info	N-terminal 6xHis-B2M-tagged
Target Sequence	RRAKSVEDDAEGHLYHVGDWLQERYEIVSTLGEGTFGRVVQCVDHRRGGARVALKIIKNVEKYKEAARLEIN VLEKINEKDPDNKNCVQMFDWFDYHGHMCISFELLGLSTDFLKDNNYLPYPIHQVRHMAFQLCQAVKFLHD NKLTHDLKPENILFVNSDYELTYNLEKKRDERSVKSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELG WSQPCDVWSIGCIIFEYVVGFTLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYFYRGRLDWDENTSAGRY VRENCKPLRRYLTSAAEEHHQLFDLIESMLEYEPAKRLTLGEALQHPFFARLRAEPPNKLWDSSRDISR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Dual specificity kinase acting on both serine,threonine and tyrosine-containing substrates. Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex. May be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing and can cause redistribution of SR proteins from speckles to a diffuse nucleoplasmic distribution. Acts as a suppressor of hepatic gluconeogenesis and glucose output by repressing PPARGC1A transcriptional activity on gluconeogenic genes via its phosphorylation. Phosphorylates PPP2R5B thereby stimulating the assembly of PP2A phosphatase with the PPP2R5B-AKT1 complex leading to dephosphorylation of AKT1. Phosphorylates: PTPN1, SRSF1 and SRSF3. Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.

## References

"The Clk2 and Clk3 dual-specificity protein kinases regulate the intranuclear distribution of SR proteins and influence pre-mRNA splicing."  
 Duncan P.I., Stojdl D.F., Marius R.M., Scheit K.H., Bell J.C.  
 Exp. Cell Res. 241:300-308(1998)Research Topic:Cell Biology

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Note: This product is for in vitro research use only