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Mouse Clk2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14614a

Specification

Mouse Clk2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	O35491
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**59987**
Antigen Region	**66-93**

Mouse Clk2 Antibody (N-term) - Additional Information

Gene ID 12748

Other Names
Dual specificity protein kinase CLK2, CDC-like kinase 2, Clk2

Target/Specificity
This Mouse Clk2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-93 amino acids from the N-terminal region of mouse Clk2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Clk2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Clk2 Antibody (N-term) - Protein Information

Name Clk2

Function 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. Phosphorylates PAGE4 at several serine and threonine residues and this phosphorylation attenuates the ability of PAGE4 to potentiate the transcriptional activator activity of JUN (By similarity).

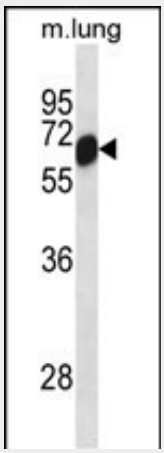
Cellular Location
Nucleus. Nucleus speckle. Note=Inhibition of phosphorylation at Ser-141 results in accumulation in the nuclear speckle

Mouse Clk2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Clk2 Antibody (N-term) - Images



Mouse Clk2 Antibody (N-term) (Cat. #AP14614a) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the Clk2 antibody detected the Clk2 protein (arrow).

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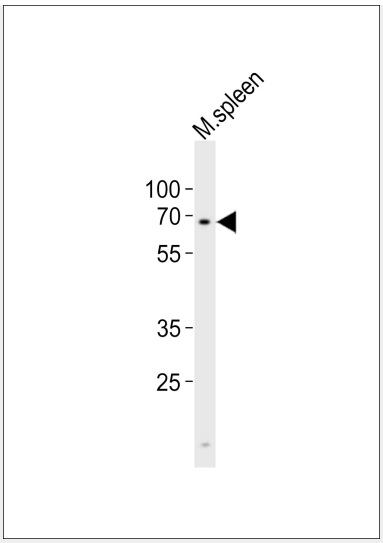
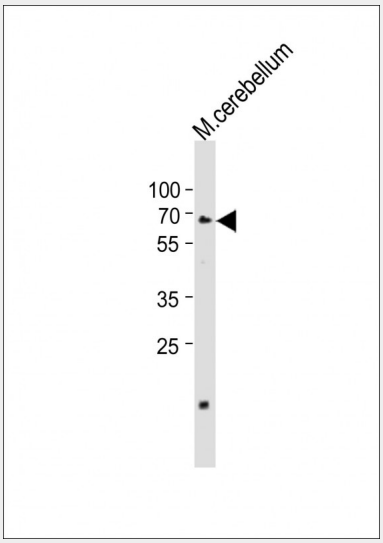


Western blot analysis of lysate from mouse spleen tissue lysate, using Clk2 Antibody (N-term)(Cat. #AP14614a). AP14614a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Anti-Clk2 Antibody (N-term)at 1:1000 dilution + mouse cerebellum lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Mouse Clk2 Antibody (N-term) - Background

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. Phosphorylates serines, threonines and tyrosines.