10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Cdk8 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21119a

Specification

Mouse Cdk8 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q8R3L8
Other Accession	P49336
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53210**

Mouse Cdk8 Antibody (C-term) - Additional Information

Gene ID 264064

Other Names
Cyclin-dependent kinase 8, Cell division protein kinase 8, Mediator complex subunit CDK8, Mediator of RNA polymerase II transcription subunit CDK8, Cdk8

Target/Specificity
This Mouse Cdk8 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 424-458 amino acids from the C-terminal region of Mouse Cdk8.

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 Cdk8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Cdk8 Antibody (C-term) - Protein Information

Name Cdk8

Function Component of the Mediator complex, a coactivator involved in regulated gene

transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene- specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional pre-initiation complex with RNA polymerase II and the general transcription factors. Phosphorylates the CTD (C- terminal domain) of the large subunit of RNA polymerase II (RNAp II), which may inhibit the formation of a transcription initiation complex. Phosphorylates CCNH leading to down-regulation of the TFIIH complex and transcriptional repression. Recruited through interaction with MAML1 to hyperphosphorylate the intracellular domain of NOTCH, leading to its degradation (By similarity).

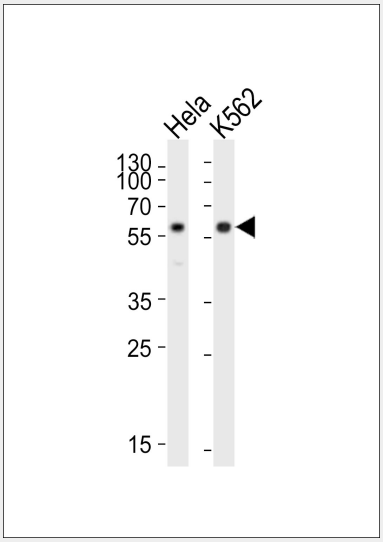
Cellular Location
Nucleus.

Mouse Cdk8 Antibody (C-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 Cdk8 Antibody (C-term) - Images



Western blot analysis of lysates from Hela, K562 cell line (from left to right), using Cdk8 Antibody (C-term)(Cat. #AP21119a). AP21119a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

Mouse Cdk8 Antibody (C-term) - Background

Component of the Mediator complex, a coactivator involved in regulated gene transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription

machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. Phosphorylates the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAp II), which may inhibit the formation of a transcription initiation complex. Phosphorylates CCNH leading to down-regulation of the TFIIH complex and transcriptional repression. Recruited through interaction with MAML1 to hyperphosphorylate the intracellular domain of NOTCH, leading to its degradation (By similarity).

Mouse Cdk8 Antibody (C-term) - References

Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Carninci P.,et al.Science 309:1559-1563(2005).