

Mouse Cdk8 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16262c**Specification**

Mouse Cdk8 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8R3L8
Other Accession	P49336 , Q8JH47 , NP_705827.2
Reactivity	Human
Predicted	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53210
Antigen Region	245-272

Mouse Cdk8 Antibody (Center) - 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 rabbits immunized with a KLH conjugated synthetic peptide between 245-272 amino acids from the Central 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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Cdk8 Antibody (Center) - 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 TFIID complex and transcriptional repression. Recruited through interaction with MAML1 to hyperphosphorylate the intracellular domain of NOTCH, leading to its degradation (By similarity).

Cellular Location

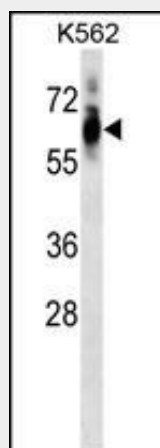
Nucleus.

Mouse Cdk8 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Cdk8 Antibody (Center) - Images



Mouse Cdk8 Antibody (Center) (Cat. #AP16262c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the Cdk8 antibody detected the Cdk8 protein (arrow).

Mouse Cdk8 Antibody (Center) - 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 (Center) - References

Alarcon, C., et al. Cell 139(4):757-769(2009)
Westerling, T., et al. Mol. Cell. Biol. 27(17):6177-6182(2007)
Jang, M.K., et al. Mol. Cell 19(4):523-534(2005)
Tomomori-Sato, C., et al. J. Biol. Chem. 279(7):5846-5851(2004)
Zambrowicz, B.P., et al. Proc. Natl. Acad. Sci. U.S.A. 100(24):14109-14114(2003)