

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

**Specification**

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**Mouse Cdk8 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O8R3L8</a>
Other Accession	<a href="#">P49336</a> , <a href="#">O8JH47</a> , <a href="#">NP_705827.2</a>
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

**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**

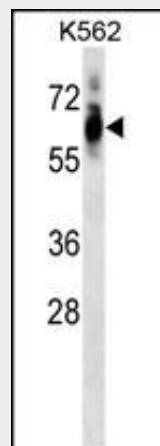
Nucleus.

#### **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 TFIIF 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)