

**CDK8 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16184****Specification**

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**CDK8 antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P49336</a>
Other Accession	<a href="#">NM_001260</a> , <a href="#">NP_001251</a>
Reactivity	Human, Mouse, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rabbit, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53kDa kDa

**CDK8 antibody - C-terminal region - Additional Information****Gene ID 1024**

Alias Symbol	K35
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**Other Names**  
Cyclin-dependent kinase 8, 2.7.11.22, 2.7.11.23, Cell division protein kinase 8, Mediator complex subunit CDK8, Mediator of RNA polymerase II transcription subunit CDK8, Protein kinase K35, CDK8

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-CDK8 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CDK8 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**CDK8 antibody - C-terminal region - 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.

#### **Cellular Location**

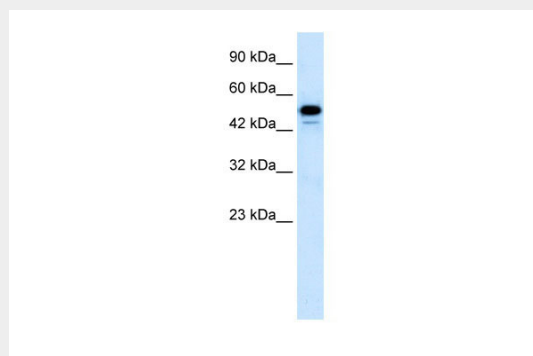
Nucleus.

#### **CDK8 antibody - C-terminal region - 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](#)

#### **CDK8 antibody - C-terminal region - Images**



WB Suggested Anti-CDK8 Antibody Titration: 1.25µg/ml

ELISA Titer: 1:12500

Positive Control: HepG2 cell lysate

#### **CDK8 antibody - C-terminal region - 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.

#### **CDK8 antibody - C-terminal region - References**

Tassan J.-P.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:8871-8875(1995).  
Dunham A.,et al.Nature 428:522-528(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Sun X.,et al.Mol. Cell 2:213-222(1998).  
Gu W.,et al.Mol. Cell 3:97-108(1999).