

Datasheet for ABIN6971509
anti-CDK8 antibody (C-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	CDK8
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK8 antibody is un-conjugated
Application:	Western Blotting (WB), ChIP DNA-Sequencing (ChIP-seq), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	This antibody was raised against a peptide within the C-terminal region of human CDK8.
Isotype:	IgG
Characteristics:	<p>CDK8 (Cyclin-Dependent Kinase 8) is a 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. CDK8 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. Other studies have indicated a role in transcriptional activation in response to hypoxia. CDK8 antibody (pAb)</p>

Product Details

was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq and Western blot, it has been shown to react with Human and Mouse samples.

Purification: Affinity Purified

Target Details

Target: CDK8

Alternative Name: CDK8 ([CDK8 Products](#))

Molecular Weight: 60 kDa

NCBI Accession: [NP_001251](#)

Pathways: [Cell Division Cycle](#), [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Buffer: Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

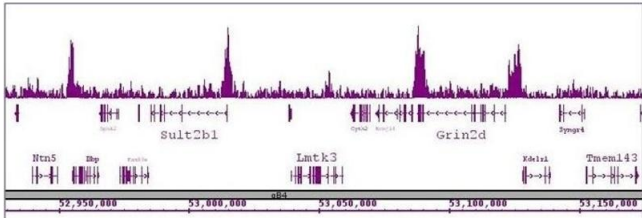
Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. CDK8 antibody (pAb) tested by Western blot. Detection of CDK8 by Western blot analysis. Lane 1: Nuclear extract of Caco-2 cells (20 µg). Lane 2: Nuclear extract of SW-48 cells (20 µg). Both were probed with CDK8 antibody (pAb) at a 1:1,000 dilution.



ChIP DNA-Sequencing

Image 2. CDK8 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 30 µg of chromatin from Mouse embryonic fibroblasts and 7 µL of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 20 million sequence tags were mapped to identify CDK8 binding sites. The image shows binding across a region of chromosome 7. You can view the complete data set in the UCSC Genome Browser, starting at this specific location, [here](#).