



## Rabbit Anti-CHD8 antibody

SL13896R

<b>Product Name:</b>	CHD8
<b>Chinese Name:</b>	ATP依赖的解旋酶CHD8抗体
<b>Alias:</b>	ATP dependent helicase CHD8; ATP-dependent helicase CHD8; Axis duplication inhibitor; Beta catenin binding protein like; CHD 8; CHD-8; chd8; CHD8_HUMAN; Chromodomain helicase DNA binding protein 8; Chromodomain-helicase-DNA-binding protein 8; DKFZp686N17164; Duplin; Helicase with SNF2 domain 1; HELSNF1; KIAA1564.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	290kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CHD8:501-600/2581
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a DNA helicase that functions as a transcription repressor by remodeling chromatin structure. It binds beta-catenin and negatively regulates Wnt signaling pathway, which plays a pivotal role in vertebrate early development and

morphogenesis. Mice lacking this gene exhibit early embryonic death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

**Function:**

DNA helicase that acts as a chromatin remodeling factor and regulates transcription. Acts as a transcription repressor by remodeling chromatin structure and recruiting histone H1 to target genes. Suppresses p53/TP53-mediated apoptosis by recruiting histone H1 and preventing p53/TP53 transactivation activity. Acts as a negative regulator of Wnt signaling pathway by regulating beta-catenin (CTNNB1) activity. Negatively regulates CTNNB1-targeted gene expression by being recruited specifically to the promoter regions of several CTNNB1 responsive genes. Involved in both enhancer blocking and epigenetic remodeling at chromatin boundary via its interaction with CTCF. Acts as a suppressor of STAT3 activity by suppressing the LIF-induced STAT3 transcriptional activity. Also acts as a transcription activator via its interaction with ZNF143 by participating to efficient U6 RNA polymerase III transcription.

**Subcellular Location:**

Nucleus. Localizes to the promoter regions of several CTNNB1-responsive genes. Also present at known CTCF target sites.

**Post-translational modifications:**

Sumoylated.

**Similarity:**

Belongs to the SNF2/RAD54 helicase family. CHD8 subfamily.  
Contains 2 chromo domains.  
Contains 1 helicase ATP-binding domain.  
Contains 1 helicase C-terminal domain.

**SWISS:**

Q9HCK8

**Gene ID:**

57680

**Database links:**

[Entrez Gene: 57680](#) Human

[Entrez Gene: 67772](#) Mouse

[Omim: 610528](#) Human

[SwissProt: Q9HCK8](#) Human

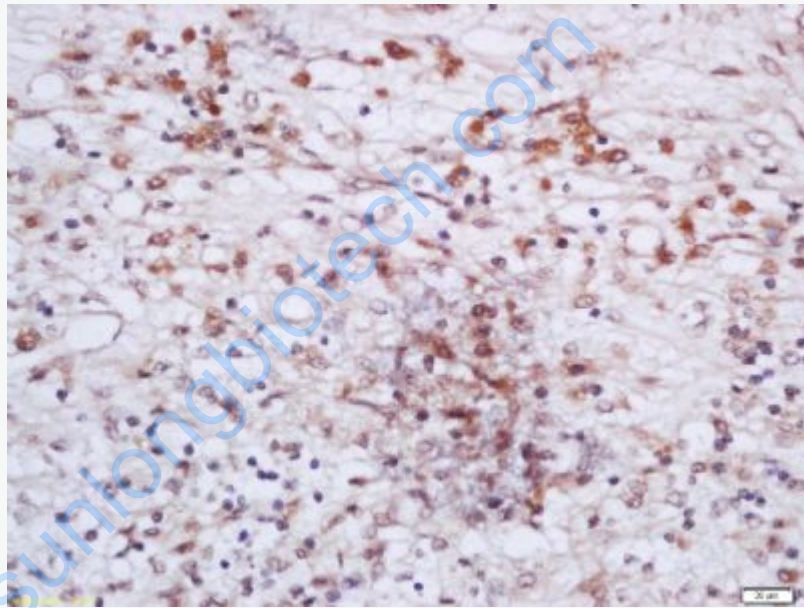
[SwissProt: Q09XV5](#) Mouse

[Unigene: 530698](#) Human

[Unigene: 289934](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Tissue/cell: human hepatocellular carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CHD8 Polyclonal Antibody, Unconjugated(SL13896R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining
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