

CHD8 Rabbit pAb

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Catalog # AP55336

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9HCK8
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	290519
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHD8
Epitope Specificity	501-600/2581
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Localizes to the promoter regions of several CTNNB1-responsive genes. Also present at known CTCF target sites.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	57680
Other Names	ATP-dependent chromatin remodeler CHD8, 3.6.4.-, Chromo domain-containing protein 8, CHD-8, CHD8 {ECO:0000255 HAMAP-Rule:MF_03071}, HELSNF1, KIAA1564
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

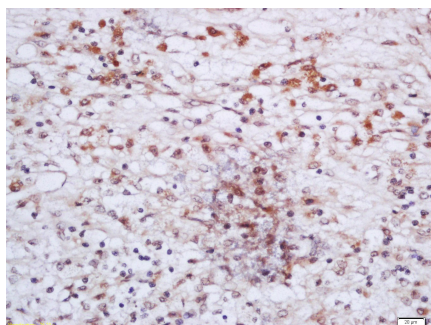
Protein Information

Name	CHD8 {ECO:0000255 HAMAP-Rule:MF_03071}
Synonyms	HELSNF1, KIAA1564
Function	ATP-dependent chromatin-remodeling factor, it slides nucleosomes along DNA; nucleosome sliding requires ATP (PubMed: 28533432). 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 in efficient U6 RNA polymerase III transcription. Regulates alternative splicing of a core group of genes involved in neuronal differentiation, cell cycle and DNA repair. Enables H3K36me3-coupled transcription elongation and co- transcriptional RNA processing likely via interaction with HNRNPL.
Cellular Location	Nucleus {ECO:0000255 HAMAP-Rule:MF_03071, ECO:0000269 PubMed:18378692, ECO:0000269 PubMed:20453063, ECO:0000269 PubMed:36537238}. Note=Localizes to the promoter regions of several CTNNB1-responsive genes. Also present at known CTCF target sites. {ECO:0000255 HAMAP-Rule:MF_03071}

Background

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Images



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(AP55336) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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