

**CHD1 (internal) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2586a****Specification****CHD1 (internal) Antibody (internal region) -  
Product Information**

Application	<b>E</b>
Primary Accession	<a href="#">O14646</a>
Other Accession	<a href="#">NP_001261.2</a> , <a href="#">1105</a> , <a href="#">12648 (mouse)</a> , <a href="#">308215 (rat)</a>
Predicted	<b>Human, Mouse, Rat, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>196688</b>

**CHD1 (internal) Antibody (internal region) -  
Additional Information****Gene ID 1105****Other Names**

Chromodomain-helicase-DNA-binding  
protein 1, CHD-1, 3.6.4.12, ATP-dependent  
helicase CHD1, CHD1

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium  
azide, pH7.3 with 0.5% bovine serum  
albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C in small aliquots to prevent  
freeze-thaw cycles.

**Precautions**

CHD1 (internal) Antibody (internal region) is  
for research use only and not for use in  
diagnostic or therapeutic procedures.

**CHD1 (internal) Antibody (internal region) -  
Protein Information****CHD1 (internal) Antibody (internal region)  
- References**

The trithorax-group gene in Drosophila little  
imaginal discs encodes a trimethylated histone  
H3 Lys4 demethylase. Eissenberg JC, Lee MG,  
Schneider J, Ilvarsonn A, Shiekhata R,  
Shilatifard A. Nat Struct Mol Biol. 2007  
Apr;14(4):344-346. Epub 2007 Mar 11. PMID:  
17351630

**Name** CHD1**Function**

ATP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. Regulates polymerase II transcription. Also required for efficient transcription by RNA polymerase I, and more specifically the polymerase I transcription termination step. Regulates negatively DNA replication. Not only involved in transcription-related chromatin-remodeling, but also required to maintain a specific chromatin configuration across the genome. Is also associated with histone deacetylase (HDAC) activity (By similarity). Required for the bridging of SNF2, the FACT complex, the PAF complex as well as the U2 snRNP complex to H3K4me3. Functions to modulate the efficiency of pre- mRNA splicing in part through physical bridging of spliceosomal components to H3K4me3 (PubMed:<a href="http://www.uniprot.org/citations/18042460" target="\_blank">18042460</a>, PubMed:<a href="http://www.uniprot.org/citations/28866611" target="\_blank">28866611</a>). Required for maintaining open chromatin and pluripotency in embryonic stem cells (By similarity).

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:P40201}.  
Cytoplasm {ECO:0000250|UniProtKB:P40201}. Note=Is released into the cytoplasm when cells enter mitosis and is reincorporated into chromatin during telophase-cytokinesis. {ECO:0000250|UniProtKB:P40201}

**Tissue Location**

Expressed in many tissues including in the brain, where the highest level of expression is found in the cerebellum and basal ganglia.

**CHD1 (internal) Antibody (internal 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](#)