

Chd1 polyclonal antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11638**Specification**

Chd1 polyclonal antibody - Product Information

Application	WB
Primary Accession	O14646
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	196688

Chd1 polyclonal antibody - Additional Information**Gene ID** 1105**Other Names**

CHD-1, ATPase DNA-binding protein 1

Target/Specificity

Chd1

Formulation

In PBS with 0.05% sodium azide and 0.05% ProClin 300.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

Chd1 polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Chd1 polyclonal antibody - Protein Information**Name** CHD1 ([HGNC:1915](#))**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:18042460, PubMed:28866611). 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

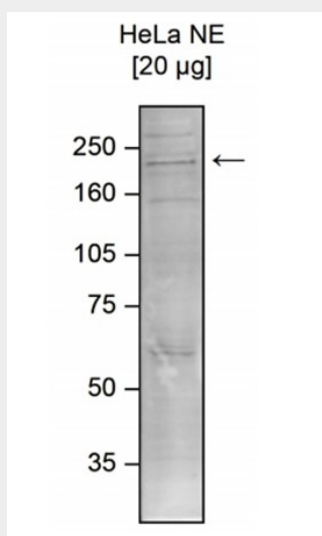
Expressed in many tissues including in the brain, where the highest level of expression is found in the cerebellum and basal ganglia.

Chd1 polyclonal antibody - 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](#)

Chd1 polyclonal antibody - Images



Western blot was performed on nuclear extracts from HeLa cells (20ug) with the antibody diluted 1:1000 in TBS-Tween containing 5% skimmed milk.

Chd1 polyclonal antibody - Background

CHD1 is a member of the CHD (chromodomain-helicase-DNA-binding) family of proteins that interacts with nucleosomes and plays a role in chromatin remodeling to modulate transcription. The

members of the CHD family of proteins possess 3 common structural and functional domains: a chromodomain (chromatin organization modifier), an SNF2-like helicase/ATPase domain, and a C-terminal DNA-binding domain. CHD1 has been shown to interact with the transcriptional corepressor NCoR and histone deacetylase 1 indicating a role in transcriptional regulation. CHD1 has also been shown to interact with the Paf1 complex and Rtf1 implicating an additional role in transcriptional elongation.