

CHD5 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51748**Specification**

CHD5 Antibody - Product Information

Application	WB, E
Primary Accession	Q8TDI0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	223 KDa

CHD5 Antibody - Additional Information**Gene ID** 26038**Other Names**

Chromodomain-helicase-DNA-binding protein 5, CHD-5, ATP-dependent helicase CHD5, CHD5
{ECO:0000312|EMBL:AAL989621}, KIAA0444

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

CHD5 Antibody - Protein Information**Name** CHD5 {ECO:0000312|EMBL:AAL98962.1}**Synonyms** KIAA0444**Function**

Chromatin-remodeling protein that binds DNA through histones and regulates gene transcription. May specifically recognize and bind trimethylated 'Lys-27' (H3K27me3) and non-methylated 'Lys-4' of histone H3. Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin. Plays a role in the development of the nervous system by activating the expression of genes promoting neuron terminal differentiation. In parallel, it may also positively regulate the trimethylation of histone H3 at 'Lys-27' thereby specifically repressing genes that promote the differentiation into non-neuronal cell lineages. Regulates the expression of genes involved in cell proliferation and differentiation. Downstream activated genes may include CDKN2A that positively regulates the p53/TP53 pathway, which in turn, prevents cell proliferation. In spermatogenesis, it probably regulates histone hyperacetylation and the replacement of histones by transition proteins in chromatin, a crucial step in the condensation of spermatid chromatin and the production of functional spermatozoa.

Cellular Location

Nucleus. Chromosome {ECO:0000250|UniProtKB:A2A8L1}

Tissue Location

Preferentially expressed in total brain, fetal brain, and cerebellum. It is also moderately expressed in the adrenal gland and detected in testis.

CHD5 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](#)

CHD5 Antibody - Images**CHD5 Antibody - Background**

May play a role in the development of the nervous system and the pathogenesis of neural tumors.

CHD5 Antibody - References

Thompson P.M.,et al.Oncogene 22:1002-1011(2003).
Gregory S.G.,et al.Nature 441:315-321(2006).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Seki N.,et al.DNA Res. 4:345-349(1997).
Sjoeblom T.,et al.Science 314:268-274(2006).