

CHD5 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2571a**Specification**

CHD5 Antibody (internal region) - Product Information

Application	IF, FC
Primary Accession	Q8TDI0
Other Accession	NP_056372.1 , 26038 , 269610 (mouse)
Predicted	Human, Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	223050

CHD5 Antibody (internal region) - Additional Information**Gene ID** 26038**Other Names**

Chromodomain-helicase-DNA-binding protein 5, CHD-5, 3.6.4.12, ATP-dependent helicase CHD5, CHD5 {ECO:0000312|EMBL:AAL98962.1}, KIAA0444

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

CHD5 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

CHD5 Antibody (internal region) - 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}

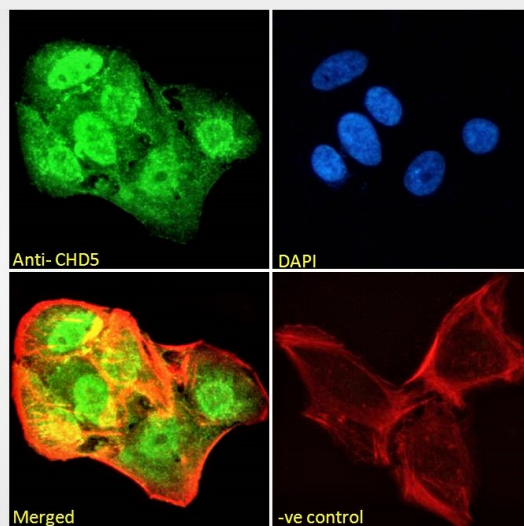
Tissue Location

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

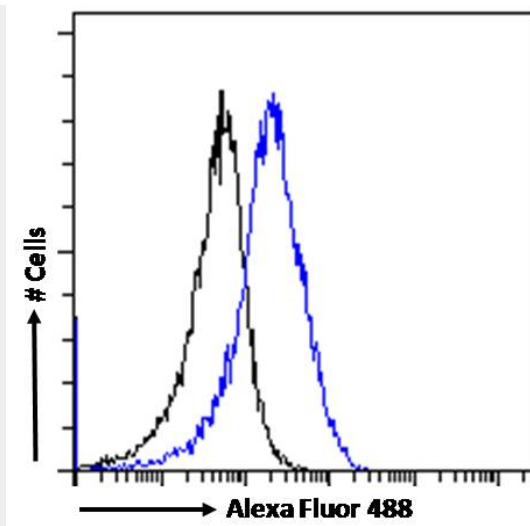
CHD5 Antibody (internal region) - Protocols

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](#)

CHD5 Antibody (internal region) - Images

EB07740 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. Actin filaments



EB07740 Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

CHD5 Antibody (internal region) - References

CHD5, a new member of the chromodomain gene family, is preferentially expressed in the nervous system. Thompson PM, Gotoh T, Kok M, White PS, Brodeur GM. *Oncogene*. 2003 Feb 20;22(7):1002-11. PMID: 12592387 [PubMed - indexed for MEDLINE]