

### **CHD5 Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51748

# **Specification**

## **CHD5 Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB, E
OBTDIO
Human, Mouse, Rat
Rabbit
Polyclonal
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

### **Dilution**

WB~~1:1000 E~~N/A

#### **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**

ATP-dependent chromatin-remodeling factor 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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).