

CHD5 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51748

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q8TDIO |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 223050 |

Additional Information

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| 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 |
| 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 |

Protein Information

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| Name | CHD5 {ECO:0000312 EMBL:AAL98962.1} |
| Synonyms | KIAA0444 |
| Function | <p>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.</p> |

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| 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. |

Background

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

References

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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).

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