

IHC*easy* CHD1 Ready-To-Use IHC Kit

Catalog Number: **KHC1425**

General Information

Sample type:
FFPE tissue

Cited sample type:

Reactivity:
Human, Mouse, Rat

Cited Reactivity:

Assay type:
Immunohistochemistry

Primary antibody type:
Rabbit Polyclonal

Secondary antibody type:
Polymer-HRP-Goat anti-Rabbit

Kit Component

| Component | Size | Concentration |
|--------------------------|--------------------|---------------|
| Antigen Retrieval Buffer | 100 mL | 50× |
| Washing Buffer | 100 mL ×2 | 20× |
| Blocking Buffer | 5 mL | RTU |
| Primary Antibody | 5 mL | RTU |
| Secondary Antibody | 5 mL | RTU |
| Chromogen Component A | 0.2 mL | RTU |
| Chromogen Component B | 4 mL | RTU |
| Signal Enhancer | 5 mL | RTU |
| Counter Staining Reagent | 5 mL | RTU |
| Mounting Media | 5 mL | RTU |
| Control Slide | 1 slide (Optional) | FFPE |
| Datasheet | 1 Copy | |
| Manual | 1 Copy | |

Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

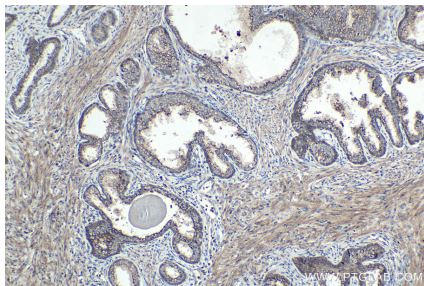
Background

CHD1 belongs to the SNF2/RAD54 helicase family. CHD1 is an ATP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. CHD1 regulates polymerase II transcription. It is required for efficient transcription by RNA polymerase I, and more specifically the polymerase I transcription termination step. CHD1 regulates negatively DNA replication. It is required to maintain a specific chromatin configuration across the genome. It is associated with histone deacetylase (HDAC) activity. CHD1 is required for the bridging of SNF2, the FACT complex, the PAF complex as well as the U2 snRNP complex to H3K4me3. It functions to modulate the efficiency of pre-mRNA splicing in part through physical bridging of spliceosomal components to H3K4me3. It is required for maintaining open chromatin and pluripotency in embryonic stem cells. In PTEN-deficient prostate and breast cancers, CHD1 depletion profoundly and specifically suppressed cell proliferation, cell survival and tumorigenic potential.

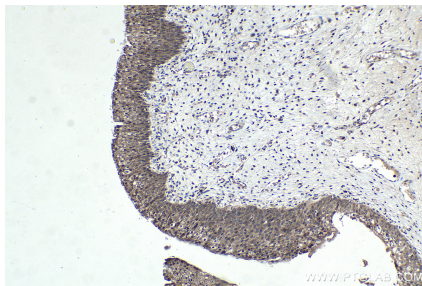
Synonyms

ATP dependent helicase CHD1, CHD 1, CHD1

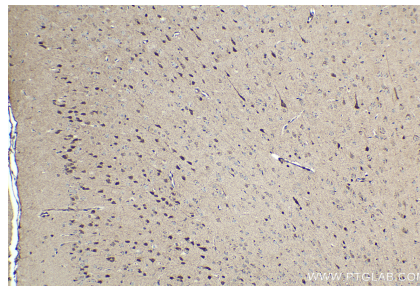
Selected Validation Data



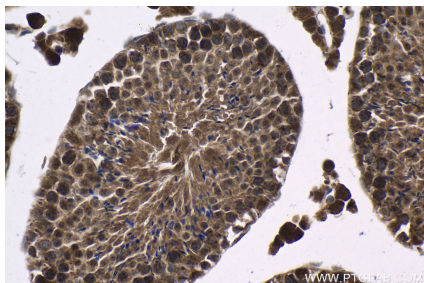
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using KHC1425 (CHD1 IHC Kit).



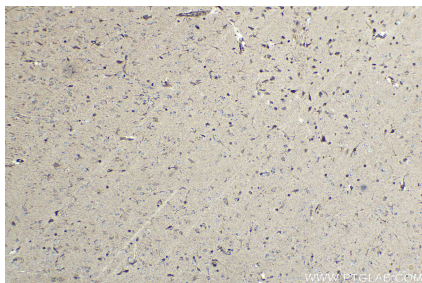
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using KHC1425 (CHD1 IHC Kit).



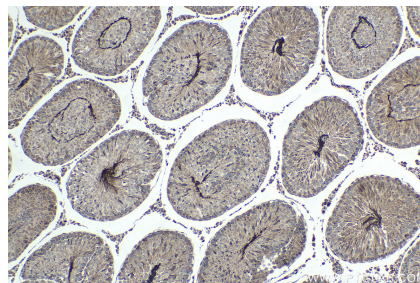
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC1425 (CHD1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC1425 (CHD1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC1425 (CHD1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC1425 (CHD1 IHC Kit).