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CHD7 Antibody
Catalog # ASC11359

Specification

CHD7 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q9P2D1
Other Accession	Q9P2D1, 54112403
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**CHD7 antibody can be used for detection of CHD7 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

CHD7 Antibody - Additional Information

Gene ID **55636**

Target/Specificity
CHD7; Multiple isoforms of CHD7 are known to exist.

Reconstitution & Storage
CHD7 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
CHD7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CHD7 Antibody - Protein Information

Name CHD7

Synonyms KIAA1416

Function
ATP-dependent chromatin-remodeling factor, slides nucleosomes along DNA; nucleosome sliding requires ATP (PubMed:28533432). Probable transcription regulator. May be involved in the in 45S precursor rRNA production.

Cellular Location
[Isoform 1]: Nucleus

Tissue Location

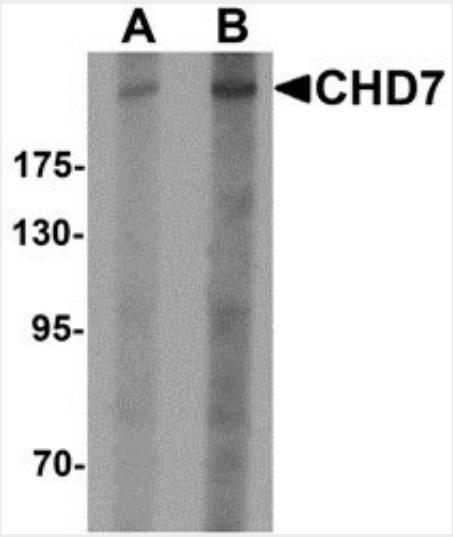
Widely expressed in fetal and adult tissues.

CHD7 Antibody - Protocols

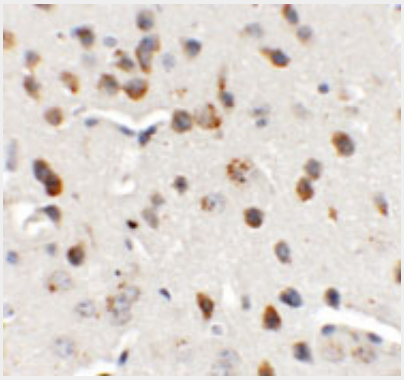
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CHD7 Antibody - Images



Western blot analysis of CHD7 in SK-N-SH cell lysate with CHD7 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of CHD7 in mouse brain tissue with CHD7 antibody at 5 µg/mL.

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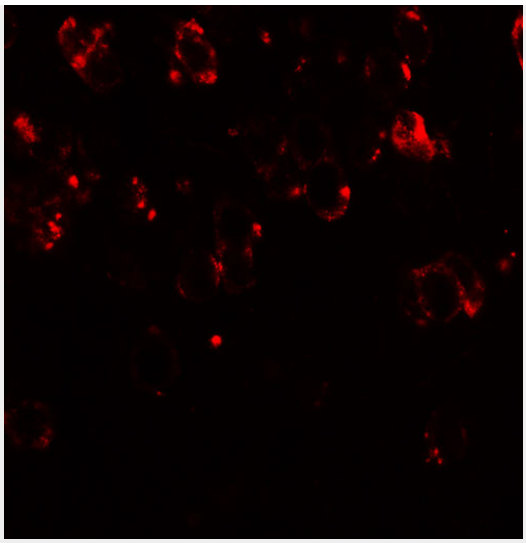

Immunofluorescence of CHD7 in mouse brain tissue with CHD7 antibody at 20 µg/mL.

CHD7 Antibody - Background

CHD7 Antibody: CHD proteins belong to a superfamily of proteins of ATP-dependent chromatin remodeling enzymes that have a unique combination of functional domains, including two N-terminal chromodomains, a SNF2-like ATPase/helicase domain and a DNA-binding domain. These proteins are thought to play a role in early embryonic development by affecting chromatin structure and gene expression. Mutations in one member of this family, CHD7, result in CHARGE syndrome. It colocalizes with embryonic stem (ES) cell master regulators OCT4/POU5F1, SOX2, and NANOG and is thought to modulate ES-specific gene transcription. Together with SOX2, CHD7 has been suggested to also regulate several human disease genes.

CHD7 Antibody - References

Woodage T, Basrai MA, Baxevanis AD, et al. Characterization of the CHD family of proteins. Proc. Natl. Acad. Sci. USA 1997; 94:11472-7.
Cavalli G and Paro R. Chromo-domain proteins: linking chromatin structure to epigenetic regulation. Curr. Opin. Cell Biol. 1998; 10:354-60.
Vissers LE, van Ravenswaaj CM, Admiraal R, et al. Mutations in a new member of the chromodomain gene family cause CHARGE syndrome. Nat. Genet. 2004; 36:955-7.
Schnetz MP, Handoko L, Akhtar-Zaidi B, et al. CHD7 targets active gene enhancer elements to modulate ES cell-specific gene expression. PLoS Genet. 2010; 6:31001023.