abcam

## Product datasheet

# Anti-Chd7 antibody ab31824

6 Abreviews 16 References 2 Images

### Overview

| | |
|---|---|
| **Product name** | Anti-Chd7 antibody |
| **Description** | Rabbit polyclonal to Chd7<br>**This product is a fast track antibody. It has been affinity purified and shows high titre values against the immunizing peptide by ELISA.** Read the terms of use » |
| **Host species** | Rabbit |
| **Species reactivity** | **Predicted to work with:** Mouse, Human |
| **Immunogen** | Synthetic peptide conjugated to KLH derived from within residues 2950 to the C-terminus of Mouse Chd7.Read Abcam's proprietary immunogen policy(Peptide available as ab31859.) |

### Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **Storage buffer** | Preservative: 0.02% Sodium Azide<br>Constituents: 1% BSA, PBS, pH 7.4 |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

### Applications

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

Fast track terms of use

| Application | Abreviews | Notes |
|---|---|---|
| IHC-FoFr | | Use at an assay dependent concentration. PubMed: 22539951 |

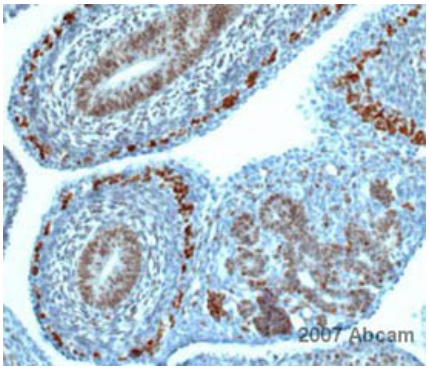
| Application | Abreviews | Notes |
|---|---|---|
| IHC-P | ★★★★★ | Use at an assay dependent concentration. PubMed: 24211491 |

## Target

| | |
|---|---|
| **Function** | Probable transcription regulator. |
| **Tissue specificity** | Widely expressed in fetal and adult tissues. |
| **Involvement in disease** | Defects in CHD7 are a cause of CHARGE syndrome (CHARGES) [MIM:214800]. This syndrome, which is a common cause of congenital anomalies, is characterized by a non-random pattern of congenital anomalies including choanal atresia and malformations of the heart, inner ear, and retina.<br>Genetic variations in CHD7 are associated with susceptibility to idiopathic scoliosis type 3 (IS3) [MIM:608765]. Idiopathic scoliosis (IS) is the most common spinal deformity in children.<br>Defects in CHD7 are the cause of Kallmann syndrome type 5 (KAL5) [MIM:612370]. Kallmann syndrome is a disorder that associates hypogonadotropic hypogonadism and anosmia. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism is due to deficiency in gonadotropin-releasing hormone and probably results from a failure of embryonic migration of gonadotropin-releasing hormone-synthesizing neurons. In some patients other developmental anomalies can be present, which include renal agenesis, cleft lip and/or palate, selective tooth agenesis, and bimanual synkinesis. In some cases anosmia may be absent or inconspicuous.<br>Defects in CHD7 are a cause of idiopathic hypogonadotropic hypogonadism (IHH) [MIM:146110]. IHH is defined as a deficiency of the pituitary secretion of follicle-stimulating hormone and luteinizing hormone, which results in the impairment of pubertal maturation and of reproductive function. |
| **Sequence similarities** | Belongs to the SNF2/RAD54 helicase family.<br>Contains 2 chromo domains.<br>Contains 1 helicase ATP-binding domain.<br>Contains 1 helicase C-terminal domain. |
| **Post-translational modifications** | Phosphorylated upon DNA damage, probably by ATM or ATR. |
| **Cellular localization** | Nucleus. |

## Images

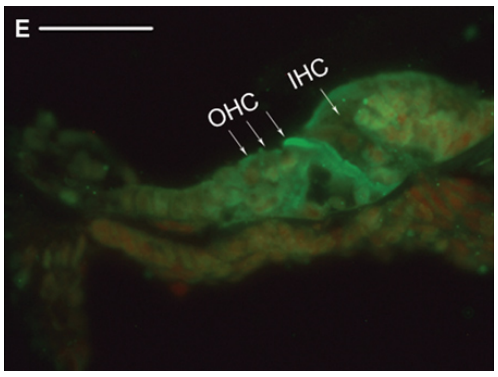
This Fast-Track antibody is not yet fully characterised. These images represent **inconclusive preliminary data**.




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chd7 antibody (ab31824)

This image is courtesy of an Abreview submitted by Dr Erika Bosman

ab31824 at 1/500 staining mouse embryo tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). The tissue sections were formaldehyde fixed and a heat mediated antigen retrieval step was performed prior to incubation with the antibody for 20 minutes. An HRP conjugated donkey anti-rabbit antibody was used as the secondary.




Immunohistochemistry (Frozen sections) - Anti-Chd7 antibody (ab31824)

Image from Tian C et al., PLoS One. 2012;7(4):e34944. Epub 2012 Apr 23. Fig 7.; doi:10.1371/journal.pone.0034944; April 23, 2012, PLoS ONE 7(4): e34944.

Immunohistochemical analysis of murine inner ear tissue, staining Chd7 with ab31824.

Tissue was fixed in paraformaldehyde and blocked with 5% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/200) overnight at 4°C. An AlexaFluor®488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody.



## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors