abcam

## Product datasheet

# Anti-CC2D2A antibody ab151210

1 Image

### Overview

| | |
|---|---|
| **Product name** | Anti-CC2D2A antibody |
| **Description** | Rabbit polyclonal to CC2D2A |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** IHC-P |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Mouse |
| **Immunogen** | Recombinant fragment, corresponding to amino acids 659-767 of Human CC2D2A.<br>Run BLAST with ExPASy Run BLAST with NCBI |
| **Positive control** | Human placenta tissue. |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

### Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.02% Sodium azide<br>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab151210 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **IHC-P** | | 1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## Target

**Function** May be involved in cilia formation.

**Tissue specificity** Strongly expressed in prostate, pancreas, kidney, lung, liver, retina, kidney, fetal brain and fetal kidney. Lower expression in spleen, small intestine, colon, skeletal muscle, ovary, thymus and heart.

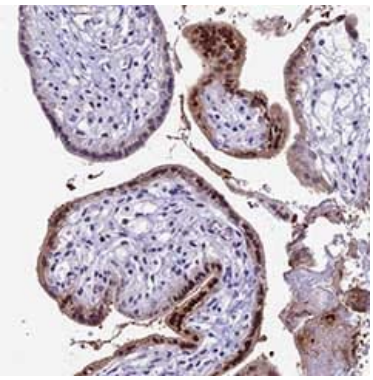
**Involvement in disease** Defects in CC2D2A are the cause of Meckel syndrome type 6 (MKS6) [MIM:612284]. MKS is an autosomal recessive disorder characterized by a combination of renal cysts and variably associated features including developmental anomalies of the central nervous system (typically encephalocele), hepatic ductal dysplasia and cysts, and polydactyly.
Defects in CC2D2A are the cause of Joubert syndrome type 9 (JBTS9) [MIM:612285]. JBTS is an autosomal recessive disorder presenting with cerebellar ataxia, oculomotor apraxia, hypotonia, neonatal breathing abnormalities and psychomotor delay. Neuroradiologically, it is characterized by cerebellar vermian hypoplasia/aplasia, thickened and reoriented superior cerebellar peduncles, and an abnormally large interpeduncular fossa, giving the appearance of a molar tooth on transaxial slices (molar tooth sign). Additional variable features include retinal dystrophy and renal disease.
Defects in CC2D2A are a cause of COACH syndrome (COACHS) [MIM:216360]. It is a disorder characterized by mental retardation, ataxia due to cerebellar hypoplasia, and hepatic fibrosis. Patients present the molar tooth sign, a midbrain-hindbrain malformation pathognomonic for Joubert syndrome and related disorders. Other features, such as coloboma and renal cysts, may be variable.

**Sequence similarities** Contains 1 C2 domain.

**Developmental stage** At Carnagie stage 13 (CS13, after 4 weeks of development) and CS14 CC2D2A is ubiquitously expressed, with a distinct signal in the spinal cord and limb buds. At CS17 CC2D2A continue to be widely expressedin particular throughout the central nervous system (CNS), lung, and digestive tract epithelia. At CS22 expression continues to be intense within the CNS, where strong and specific expression is observed in the eye and in external granular layer of cerebellum. CC2D2A expression is also observed in the costal perichondrium.

**Cellular localization** Cytoplasm. Cytoplasm > cytoskeleton > cilium basal body.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CC2D2A antibody (ab151210)

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling CC2D2A with ab151210 at 1/50 dilution.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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