

Product datasheet

Anti-CC2D1A antibody ab68302

[4 References](#) [4 Images](#)

Overview

Product name	Anti-CC2D1A antibody
Description	Mouse polyclonal to CC2D1A
Host species	Mouse
Specificity	This antibody is reactive against mammalian transfected lysate.
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein within Human CC2D1A. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.
Positive control	CC2D1A transfected 293T cell lysate and human liver tissue lysate
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab68302 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
ICC/IF		Use a concentration of 10 µg/ml.
IHC-P		Use a concentration of 3 µg/ml.
WB		1/500 - 1/1000. Detects a band of approximately 104 to 125 kDa (predicted molecular weight: 104 kDa).

Target

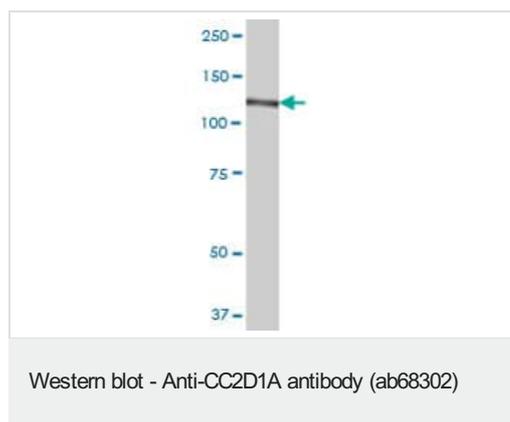
Relevance

CC2D1A belongs to the CC2D1 family. It contains one C2 domain. It is a transcription factor that binds specifically to the FRE (five repressor element) and represses HTR1A gene transcription in neuronal cells. The combination of calcium and ATP specifically inactivates the binding with FRE. CC2D1A may play a role in the altered regulation of HTR1A associated with anxiety and major depression. It also mediates HDAC-independent repression of HTR1A promoter in neuronal cell. There are three named isoforms. Defects in CC2D1A are the cause of non-syndromic mental retardation autosomal recessive type 3 (MRT3). Patients display severe mental retardation and psychomotor development delay in early childhood. Non-syndromic mental retardation patients do not manifest other clinical signs.

Cellular localization

Cytoplasm. Nucleus.

Images



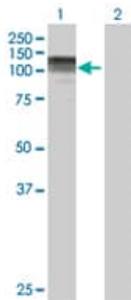
Anti-CC2D1A antibody (ab68302) at 1/500 dilution + human liver tissue lysate at 25 µg

Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/2500 dilution

Predicted band size: 104 kDa

Observed band size: 125 kDa



Western blot - Anti-CC2D1A antibody (ab68302)

All lanes : Anti-CC2D1A antibody (ab68302) at 1/500 dilution

Lane 1 : CC2D1A transfected 293T cell lysate

Lane 2 : Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

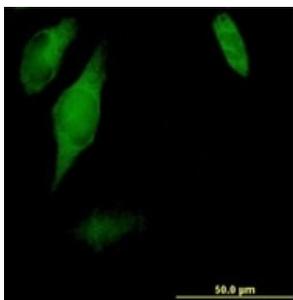
Secondary

All lanes : Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/2500 dilution

Predicted band size: 104 kDa

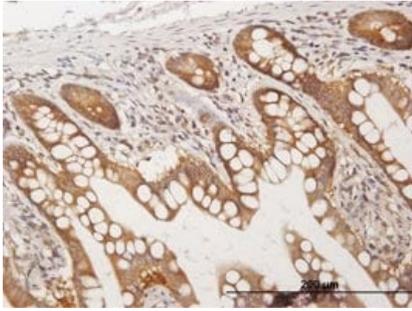
Observed band size: 104 kDa

Additional bands at: 125 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-CC2D1A antibody (ab68302)

Immunofluorescence of ab68302 staining on HeLa cell at a concentration of 10 µg/ml.



Immunoperoxidase of ab68302 on formalin-fixed paraffin-embedded human small intestine. Antibody concentration, 3 ug/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CC2D1A antibody (ab68302)

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

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