


Anti-ADCK3 antibody ab230897

[1 References](#) [3 Images](#)

Overview

Product name	Anti-ADCK3 antibody
Description	Rabbit polyclonal to ADCK3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow 
Immunogen	Synthetic peptide corresponding to Human ADCK3 (internal sequence) conjugated to keyhole limpet haemocyanin. Database link: Q8NI60
Positive control	WB: HeLa and U-251 MG whole cell lysates. IHC-P: Human thymus tissue. ICC/IF: HeLa cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.01% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab230897 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		1/100.
WB		1/500 - 1/1000. Predicted molecular weight: 72 kDa.
ICC/IF		1/100 - 1/500.

Target

Function

May be a chaperone-like protein essential for the proper conformation and functioning of protein complexes in the respiratory chain.

Tissue specificity

Ubiquitously expressed with a relatively greater abundance in heart and skeletal muscle.

Involvement in disease

Defects in ADCK3 are a cause of coenzyme Q10 deficiency (CoQ10 deficiency) [MIM:607426]. CoQ10 deficiency is an autosomal recessive disorder with variable manifestations. It can be associated with three main clinical phenotypes: a predominantly myopathic form with central nervous system involvement, an infantile encephalomyopathy with renal dysfunction and an ataxic form with cerebellar atrophy.

Defects in ADCK3 are the cause of spinocerebellar ataxia autosomal recessive type 9 (SCAR9) [MIM:612016]; also known as autosomal recessive cerebellar ataxia type 2 (ARCA2).

Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCAR9 is an autosomal recessive form characterized by gait ataxia and cerebellar atrophy with slow progression and few associated features. Patients can manifest brisk tendon reflexes and Hoffmann sign, mild psychomotor retardation, mild axonal degeneration of the sural nerve, exercise intolerance and elevated serum lactate.

Sequence similarities

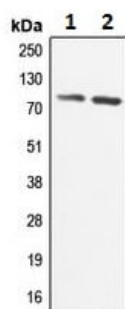
Belongs to the protein kinase superfamily. ADCK protein kinase family.

Contains 1 protein kinase domain.

Cellular localization

Mitochondrion.

Images



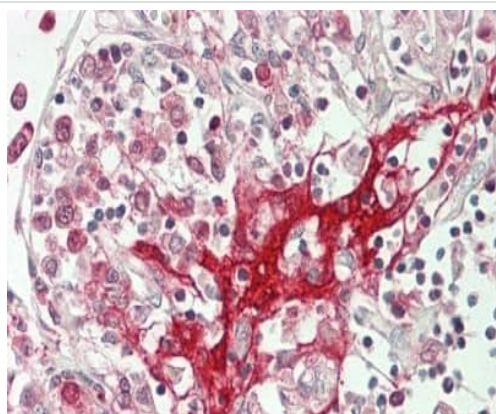
Western blot - Anti-ADCK3 antibody (ab230897)

All lanes : Anti-ADCK3 antibody (ab230897) at 1/500 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

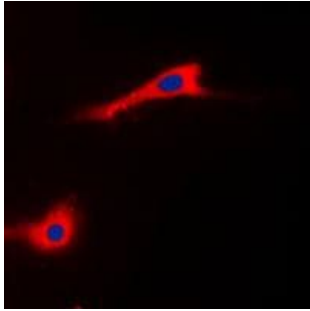
Lane 2 : U-251 MG (Human brain glioma cell line) whole cell lysate

Predicted band size: 72 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADCK3 antibody (ab230897)

Formalin-fixed, paraffin-embedded human thymus tissue stained for ADCK3 using ab230897 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-ADCK3 antibody (ab230897)

Formalin-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for ADCK3 (red) using ab230897 at 1/100 dilution followed by DyLight 594-conjugated secondary antibody in ICC/IF.

The nuclear counter stain is DAPI (blue).

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

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