abcam

Product datasheet

Anti-COX15 antibody ab201082

1 References 1 Image

Overview

Product name	Anti-COX15 antibody
Description	Rabbit polyclonal to COX15
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human COX15 aa 200-300. 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. Database link: **Q7KZN9** **Run BLAST with** **Run BLAST with**
Positive control	HEK239T, mouse Raw 264.7 and rat PC12 cell lysates.
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. 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. 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: 0.05% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Purification notes	ab201082 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is >95% (by SDS-PAGE).

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201082 in the following tested applications.

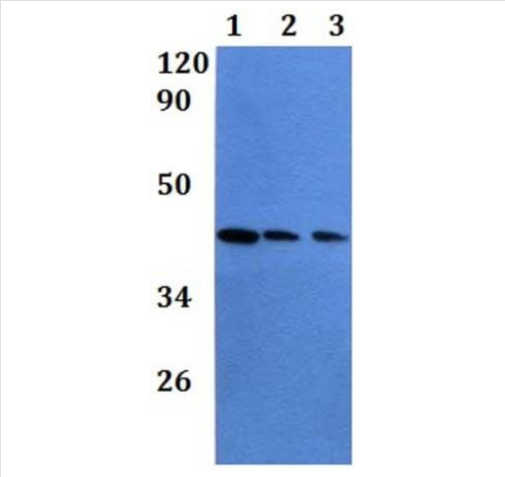
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 46 kDa.

Target

Function	May be involved in the biosynthesis of heme A.
Tissue specificity	Predominantly found in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.
Pathway	Porphyrin metabolism; heme A biosynthesis; heme A from heme O: step 1/1.
Involvement in disease	Defects in COX15 are a cause of mitochondrial complex IV deficiency (MT-C4D) [MIM:220110]; also known as cytochrome c oxidase deficiency. A disorder of the mitochondrial respiratory chain with heterogeneous clinical manifestations, ranging from isolated myopathy to severe multisystem disease affecting several tissues and organs. Features include hypertrophic cardiomyopathy, hepatomegaly and liver dysfunction, hypotonia, muscle weakness, excercise intolerance, developmental delay, delayed motor development and mental retardation. A subset of patients manifest Leigh syndrome. Defects in COX15 are a cause of Leigh syndrome (LS) [MIM:256000]. An early-onset progressive neurodegenerative disorder characterized by the presence of focal, bilateral lesions in one or more areas of the central nervous system including the brainstem, thalamus, basal ganglia, cerebellum and spinal cord. Clinical features depend on which areas of the central nervous system are involved and include subacute onset of psychomotor retardation, hypotonia, ataxia, weakness, vision loss, eye movement abnormalities, seizures, and dysphagia.
Sequence similarities	Belongs to the COX15/CtaA family.
Cellular localization	Mitochondrion membrane.

Images



Western blot - Anti-COX15 antibody (ab201082)

All lanes : Anti-COX15 antibody (ab201082)

Lane 1 : HEK293T whole cell lysate

Lane 2 : Mouse Raw 264.7 whole cell lysate

Lane 3 : Rat PC12 whole cell lysate

Predicted band size: 46 kDa

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