

Product datasheet

Anti-COX6B1 antibody [EPR7647] ab131277

Recombinant RabMAb

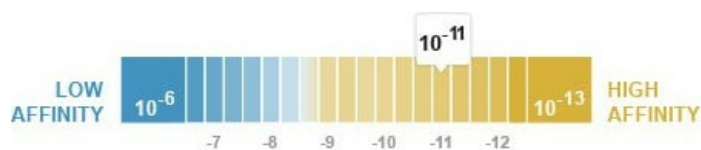
★★★★☆ 1 Abreviews 1 References 5 Images

Overview

Product name	Anti-COX6B1 antibody [EPR7647]
Description	Rabbit monoclonal [EPR7647] to COX6B1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HL60, HeLa, HepG2 and Caco 2 cell lysates; HepG2 cells;. Human colon tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 2.49 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7647
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab131277 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

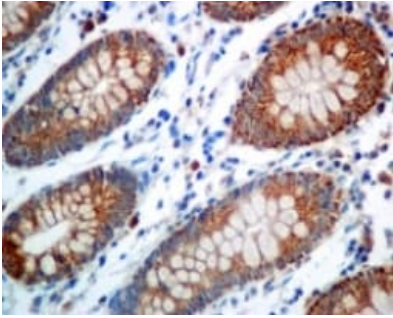
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa).
IHC-P	★★★★★ (1)	1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/100.

Application notes Is unsuitable for Flow Cyt.

Target

Function	Connects the two COX monomers into the physiological dimeric form.
Involvement in disease	Defects in COX6B1 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, exercise intolerance, developmental delay, delayed motor development and mental retardation. A subset of patients manifest Leigh syndrome.
Sequence similarities	Belongs to the cytochrome c oxidase subunit 6B family.
Cellular localization	Mitochondrion intermembrane space.

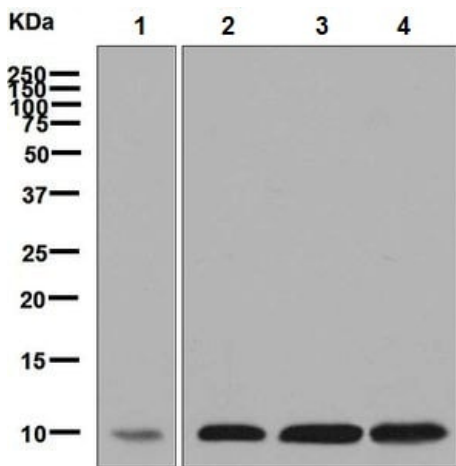
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COX6B1 antibody [EPR7647] (ab131277)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labelling COX6B1 with ab131277 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-COX6B1 antibody [EPR7647] (ab131277)

All lanes : Anti-COX6B1 antibody [EPR7647] (ab131277) at 1/1000 dilution

Lane 1 : HL60 cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : HeLa cell lysate

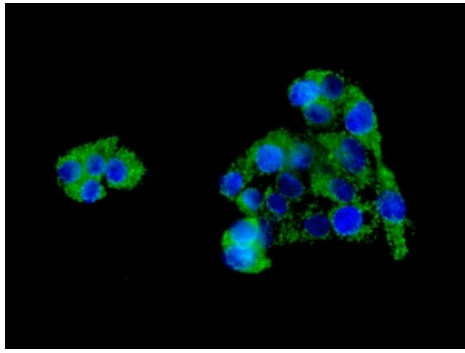
Lane 4 : Caco 2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

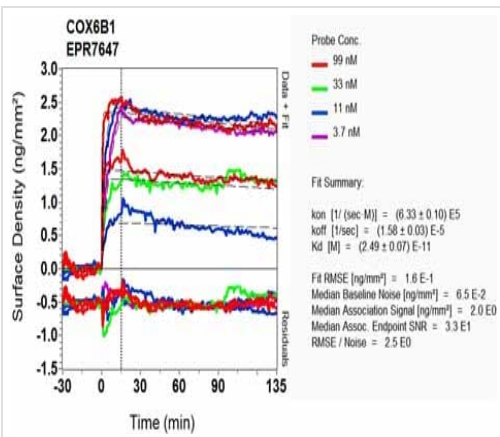
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 10 kDa



Immunocytochemistry/ Immunofluorescence - Anti-COX6B1 antibody [EPR7647] (ab131277)

Immunofluorescent analysis of HepG2 cells labelling COX6B1 with ab131277 at 1/50 dilution.



Ox-RD Scanning - Anti-COX6B1 antibody [EPR7647] (ab131277)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-COX6B1 antibody [EPR7647] (ab131277)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

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