


Product datasheet

Anti-CPOX antibody [EPR11927(B)] ab169766

Recombinant RabMAb

[2 References](#) [5 Images](#)

Overview

Product name	Anti-CPOX antibody [EPR11927(B)]
Description	Rabbit monoclonal [EPR11927(B)] to CPOX
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IP Unsuitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human CPOX (Cysteine residue). The exact sequence is proprietary. Database link: P36551
Positive control	K562, HCT-116, Jurkat, LnCaP, fetal liver and HepG2 lysates, Jurkat cells, K562 cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR11927(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab169766 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
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 36 kDa (predicted molecular weight: 50 kDa).
ICC/IF		1/50 - 1/100.
IP		1/10 - 1/100.

Application notes Is unsuitable for IHC-P.

Target

Function Key enzyme in heme biosynthesis. Catalyzes the oxidative decarboxylation of propionic acid side chains of rings A and B of coproporphyrinogen III.

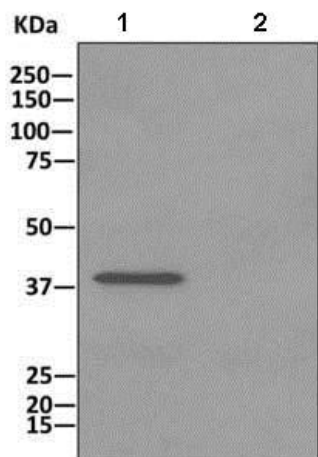
Pathway Porphyrin metabolism; protoporphyrin-IX biosynthesis; protoporphyrinogen-IX from coproporphyrinogen-III (O2 route): step 1/1.

Involvement in disease Defects in CPOX are the cause of hereditary coproporphyrin (HCP) [MIM:121300]. HCP is an acute hepatic porphyria and an autosomal dominant disease characterized by neuropsychiatric disturbances and skin photosensitivity. Biochemically, there is an overexcretion of coproporphyrin III in the urine and in the feces. HCP is clinically characterized by attacks of abdominal pain, neurological disturbances, and psychiatric symptoms. The symptoms are generally manifested with rapid onset, and can be precipitated by drugs, alcohol, caloric deprivation, infection, endocrine factors or stress. A severe variant form is harderoporphyria, which is characterized by earlier onset attacks, massive excretion of harderoporphyrin in the feces, and a marked decrease of coproporphyrinogen IX oxidase activity.

Sequence similarities Belongs to the aerobic coproporphyrinogen-III oxidase family.

Cellular localization Mitochondrion intermembrane space.

Images



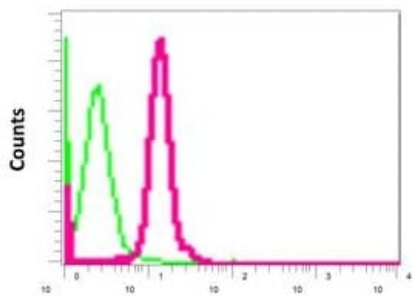
Immunoprecipitation - Anti-CPOX antibody
[EPR11927(B)] (ab169766)

Detection of CPOX by Western Blot of Immunoprecipitate.
Human fetal liver lysate (lane 1) or 1X PBS (lane 2)
immunoprecipitated using ab169766 at 1/10 dilution.

All lanes : Anti-CPOX antibody [EPR11927(B)] (ab169766) at
1/1000 dilution

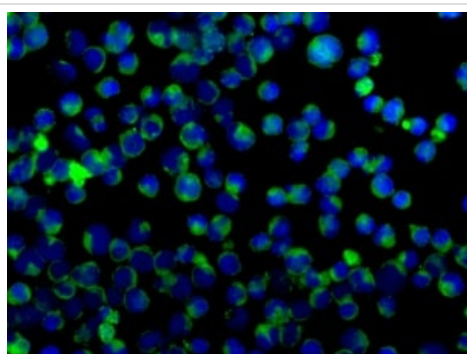
Lane 1 : Immunoprecipitation of CPOX from human fetal liver lysate
using ab169766 at 1/10 dilution

Lane 2 : 1X PBS



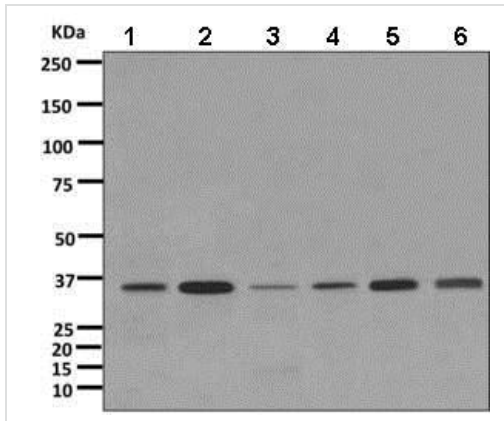
Flow Cytometry (Intracellular) - Anti-CPOX antibody
[EPR11927(B)] (ab169766)

Intracellular flow cytometric analysis of permeabilized K562 cells
labeling CPOX with ab169766 at 1/100 dilution (red) or a rabbit IgG
(negative) (green).



Immunocytochemistry/ Immunofluorescence - Anti-
CPOX antibody [EPR11927(B)] (ab169766)

Immunofluorescent analysis of Jurkat cells labeling CPOX with
ab169766 at 1/50 dilution.



Western blot - Anti-CPOX antibody [EPR11927(B)] (ab169766)

All lanes : Anti-CPOX antibody [EPR11927(B)] (ab169766) at 1/1000 dilution

Lane 1 : K562 lysate

Lane 2 : HCT-116 lysate

Lane 3 : Jurkat lysate

Lane 4 : LnCaP lysate

Lane 5 : Human fetal liver lysate

Lane 6 : HepG2 lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 50 kDa

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-CPOX antibody [EPR11927(B)] (ab169766)

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