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COXIV Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22111a

Product Information

Application	WB, FC, E
Primary Accession	P19783
Other Accession	P10888
Reactivity	Human, Rat, Mouse
Predicted	Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55992

Additional Information

Other Names	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial, Cytochrome c oxidase polypeptide IV, Cytochrome c oxidase subunit IV isoform 1, COX IV-1, Cox4i1, Cox4, Cox4a
Target/Specificity	This COXIV antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 115-169 amino acids from the mouse region of human COXIV.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	COXIV Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

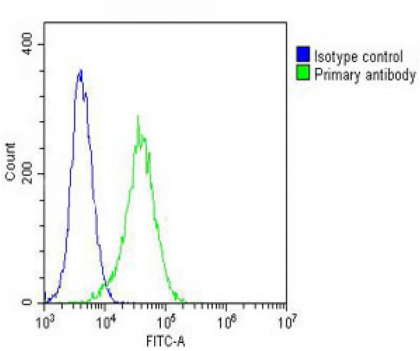
Background

This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

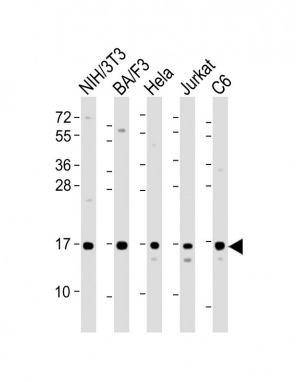
References

Grossman L.I.,et al.Nucleic Acids Res. 18:6454-6454(1990).
Carter R.S.,et al.Arch. Biochem. Biophys. 288:97-106(1991).
Carninci P.,et al.Science 309:1559-1563(2005).
Lubec G.,et al.Submitted (APR-2007) to UniProtKB.
Park J.,et al.Mol. Cell 50:919-930(2013).

Images



Overlay histogram showing NIH/3T3 cells stained with AP22111a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22111a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-COXIV Antibody at 1:2000 dilution Lane 1: NIH/3T3 whole cell lysate Lane 2: BA/F3 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: C6 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 20 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Mitochondrial transplantation reduces lower limb ischemia-reperfusion injury by increasing skeletal muscle energy and adipocyte browning
- Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity.