

# COX4NB Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20313c

## Product Information

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|-------------------|--------------------------------------------------------------------------|
| Application       | WB, E                                                                    |
| Primary Accession | <a href="#">Q43402</a>                                                   |
| Other Accession   | <a href="#">Q5FVL2</a> , <a href="#">Q70378</a> , <a href="#">Q32KL5</a> |
| Reactivity        | Human                                                                    |
| Predicted         | Bovine, Mouse, Rat, Canine, Chicken                                      |
| Host              | Rabbit                                                                   |
| Clonality         | Polyclonal                                                               |
| Isotype           | Rabbit IgG                                                               |
| Clone Names       | RB40466                                                                  |
| Calculated MW     | 23773                                                                    |
| Antigen Region    | 78-106                                                                   |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 10328                                                                                                                                                                        |
| Other Names        | ER membrane protein complex subunit 8, Neighbor of COX4, Protein FAM158B, EMC8, C16orf2, C16orf4, COX4AL, COX4NB, FAM158B, NOC4                                              |
| Target/Specificity | This COX4NB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-106 amino acids from the Central region of human COX4NB.         |
| Dilution           | WB~~1:1000 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        | COX4NB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                   |

## Protein Information

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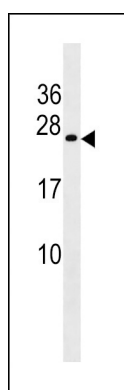
|          |                                          |
|----------|------------------------------------------|
| Name     | EMC8                                     |
| Synonyms | C16orf2, C16orf4, COX4AL, COX4NB, FAM158 |

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| <b>Function</b>          | Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed: <a href="#">29242231</a> , PubMed: <a href="#">29809151</a> , PubMed: <a href="#">30415835</a> , PubMed: <a href="#">32439656</a> , PubMed: <a href="#">32459176</a> ). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed: <a href="#">29242231</a> , PubMed: <a href="#">29809151</a> , PubMed: <a href="#">30415835</a> ). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed: <a href="#">29809151</a> , PubMed: <a href="#">30415835</a> ). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed: <a href="#">29242231</a> , PubMed: <a href="#">29809151</a> ). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed: <a href="#">30415835</a> ). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable). |
| <b>Cellular Location</b> | Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | Expressed in liver, pancreas, heart, lung, kidney, brain, skeletal muscle, and placenta. Expression levels are highest in pancreas and moderate in heart, skeletal muscle, and placenta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Background

The function of this protein remains unknown.

## Images



COX4NB Antibody (Center) (Cat. #AP20313c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the COX4NB antibody detected the COX4NB protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.