10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NDOR1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17396c

Specification

NDOR1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9UHB4
Other Accession	Q1JPJ0, NP_055249.1, NP_001137498.1
Reactivity	**Human, Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**66763**
Antigen Region	**207-234**

NDOR1 Antibody (Center) - Additional Information

Gene ID 27158

Other Names
NADPH-dependent diflavin oxidoreductase 1 {ECO:0000255|HAMAP-Rule:MF_03178}, 16--{ECO:0000255|HAMAP-Rule:MF_03178}, NADPH-dependent FMN and FAD-containing oxidoreductase {ECO:0000255|HAMAP-Rule:MF_03178}, Novel reductase 1, NDOR1 {ECO:0000255|HAMAP-Rule:MF_03178}, NR1

Target/Specificity
This NDOR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 207-234 amino acids from the Central region of human NDOR1.

Dilution
WB~~1:1000

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
NDOR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NDOR1 Antibody (Center) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name NDOR1 {ECO:0000255|HAMAP-Rule:MF_03178}

Function NADPH-dependent reductase which is a central component of the cytosolic iron-sulfur (Fe-S) protein assembly (CIA) machinery (PubMed:10625700, PubMed:28648056, PubMed:23596212, PubMed:20802492, PubMed:15900210). Transfers electrons from NADPH via its FAD and FMN prosthetic groups to the [2Fe-2S] cluster of CIAPIN1, another key component of the CIA machinery (PubMed:28648056, PubMed:23596212, PubMed:20802492). In turn, this reduced cluster provides electrons for assembly of cytosolic iron-sulfur cluster proteins (PubMed:23596212, PubMed:20802492). It can also reduce the [2Fe-2S] cluster of CISD1 and activate this protein implicated in Fe/S cluster repair (PubMed:28648056). In vitro can fully activate methionine synthase/MTR in the presence of soluble cytochrome b5/CYB5A (PubMed:12871938).

Cellular Location
Cytoplasm, perinuclear region {ECO:0000255|HAMAP- Rule:MF_03178, ECO:0000269|PubMed:10625700, ECO:0000269|PubMed:12871939}. Note=Concentrated in perinuclear structure. {ECO:0000255|HAMAP-Rule:MF_03178, ECO:0000269|PubMed:12871939}

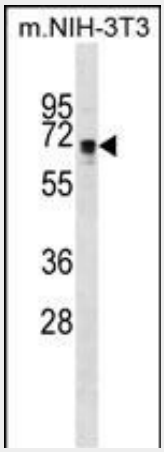
Tissue Location
Low expression in brain, heart, kidney, pancreas, prostate and skeletal muscle. Highest levels in the placenta. Expressed in cancer cell lines including promyelocytic leukemia, HeLaS3, chronic myelagenous leukemia, lymphoblastic leukemia, Burkitt's lymphoma, colorectal adenocarcinoma, lung carcinoma, and melanoma G-361

NDOR1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NDOR1 Antibody (Center) - Images



NDOR1 Antibody (Center) (Cat. #AP17396c) western blot analysis in mouse NIH-3T3 cell line

lysates (35ug/lane).This demonstrates the NDOR1 antibody detected the NDOR1 protein (arrow).

NDOR1 Antibody (Center) - Background

This gene encodes an NADPH-dependent diflavin reductase that contains both flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD) binding domains. The encoded protein is an enzyme that catalyzes the transfers electrons from NADPH through FAD and FMN cofactors to potential redox partners. Alternative splicing results in multiple transcript variants. [provided by RefSeq].

NDOR1 Antibody (Center) - References

Kwasnicka-Crawford, D.A., et al. Biochem. Biophys. Res. Commun. 336(2):565-571(2005)
Finn, R.D., et al. Pharmacogenet. Genomics 15(6):381-386(2005)
Kwasnicka, D.A., et al. J. Biol. Chem. 278(40):39051-39058(2003)
Olteanu, H., et al. J. Biol. Chem. 278(40):38310-38314(2003)
Finn, R.D., et al. Eur. J. Biochem. 270(6):1164-1175(2003)