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NDOR1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13894

Specification

NDOR1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9UHB4
Other Accession	XM_001716570, XP_001716622
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**

NDOR1 antibody - N-terminal region - Additional Information

Gene ID 27158

Alias Symbol	**MGC138148, NR1, bA350O14.9**

Other Names
NADPH-dependent diflavin oxidoreductase 1 {ECO:0000255|HAMAP-Rule:MF_03178}, 1.6.-.- {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

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-NDOR1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
NDOR1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

NDOR1 antibody - N-terminal region - Protein Information

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}

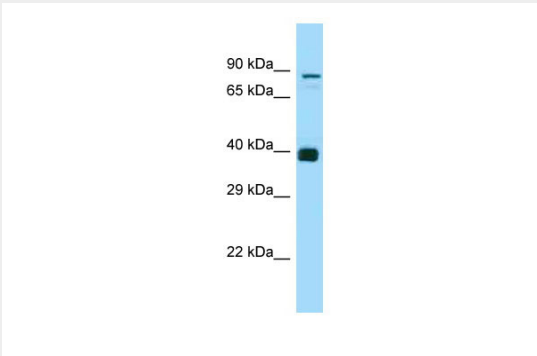
Tissue Location
Low expression in brain, heart, kidney, pancreas, prostate and skeletal muscle. Highest levels in the placenta. Expressed in cancer cell lines including promyelocytic leukemia, HeLaS3, chronic myelagenous leukemia, lymphoblastic leukemia, Burkitt's lymphoma, colorectal adenocarcinoma,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

NDOR1 antibody - N-terminal region - 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 - N-terminal region - Images



WB Suggested Anti-NDOR1 Antibody Titration: 1.0 µg/ml
Positive Control: ACHN Whole Cell