

NDOR1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57377**Specification****NDOR1 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	O9UHB4
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66763

NDOR1 Polyclonal Antibody - Additional Information**Gene ID** 27158**Other Names**

NADPH-dependent diflavin oxidoreductase 1 {ECO:0000255|HAMAP-Rule:MF_03178}, 1.18.1.- {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

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

NDOR1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/10625700), PubMed: [28648056](http://www.uniprot.org/citations/28648056), PubMed: [23596212](http://www.uniprot.org/citations/23596212), PubMed: [20802492](http://www.uniprot.org/citations/20802492), PubMed: [15900210](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/28648056), PubMed: [23596212](http://www.uniprot.org/citations/23596212), PubMed: [20802492](http://www.uniprot.org/citations/20802492)). In turn, this reduced cluster provides electrons for assembly of cytosolic iron-sulfur cluster proteins (PubMed: [23596212](http://www.uniprot.org/citations/23596212),

PubMed:20802492). It can also reduce the [2Fe-2S] cluster of C1SD1 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

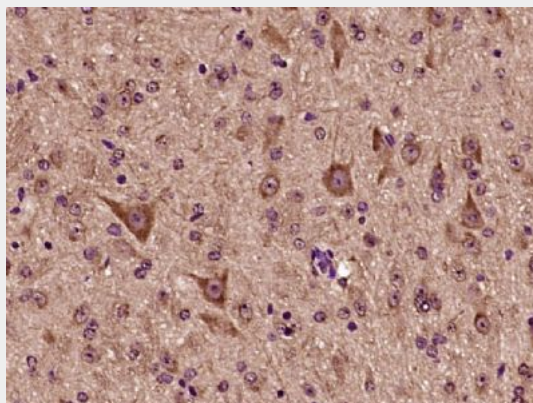
Low expression in brain, heart, kidney, pancreas, prostate and skeletal muscle. Highest levels in the placenta. Expressed in cancer cell lines including promyelocytic leukemia, HeLaS3, chronic myelogenous leukemia, lymphoblastic leukemia, Burkitt's lymphoma, colorectal adenocarcinoma, lung carcinoma,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

NDOR1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NDOR1 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NDOR1) Polyclonal Antibody, Unconjugated (bs-19061R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.