

Ndufs4 polyclonal antibody

Catalog: BS90922

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial (NDUFS4) also known as NADH-ubiquinone oxidoreductase 18 kDa subunit is an enzyme that in humans is encoded by the NDUFS4 gene. This gene encodes an nuclear-encoded accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I, or NADH:ubiquinone oxidoreductase), plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome (ND1-6, ND4L) and the remainder by nuclear genes. Mutations in this gene can cause mitochondrial complex I deficiencies such as Leigh syndrome.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

20 kDa

Swiss-Prot:

O43181 Human;Q9CXZ1 Mouse;Q5XIF3 Rat

Purification&Purity:

Protein A purified.

Applications:

WB:1:500-1:1,000

IP:1:10-1:50

IHC:1:50-1:200

FC:1:50-1:100

Storage&Stability:

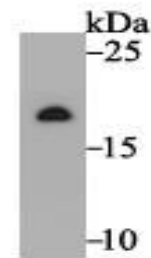
Store at +4 °C after thawing. Aliquot store at -20 °C.

Avoid repeated freeze / thaw cycles.

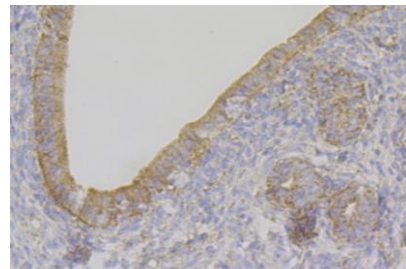
Specificity:

Ndufs4 polyclonal antibody detects endogenous levels of Ndufs4 protein.

DATA:



Western blot analysis of Ndufs4 on rat heart tissue lysate. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded rat uterus tissue using anti-Ndufs4 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with ET7109-37 at 1/100 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. Counter stained with hematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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