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Product datasheet for AP01487PU-N

MT ND1 (ND1) Rabbit Polyclonal Antibody

Product data:

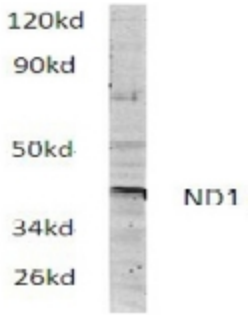
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of ND1 protein. (region surrounding Val208)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~40.0 kDa
Gene Name:	mitochondrially encoded NADH dehydrogenase 1
Database Link:	Entrez Gene 4535 Human P03886

View online »

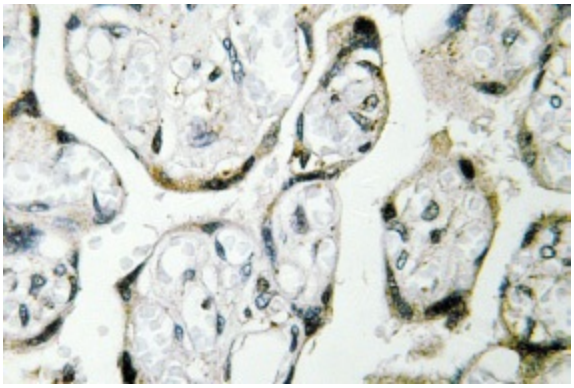
Background: NADH:ubiquinone oxidoreductase (complex I) is an extremely complicated multiprotein complex located in the inner mitochondrial membrane. Human complex I is important for energy metabolism because its main function is to transport electrons from NADH to ubiquinone, which is accompanied by translocation of protons from the mitochondrial matrix to the intermembrane space. Human complex I appears to consist of 41 subunits. A small number of complex I subunits are the products of mitochondrial genes (subunits 1-7),while the remainder are nuclear encoded and imported from the cytoplasm. NADH dehydrogenase subunit 1 (ND1) binds rotenone and rotenone analogs and might be involved in electron transfer to ubiquinone. Mutations in the ND1 gene may be implicated in several disorders, including Leber hereditary optic neuropathy, Alzheimer's disease and Parkinson disease.

Synonyms: MT-ND1, MTND1, NADH1

Product images:



Western blot analysis of ND1 antibody (Cat.-No AP01487PU-N) in extracts from Hela cells at 1/500 dilution.



Immunohistochemistry analysis of ND1 antibody (Cat.-No AP01487PU-N) in paraffin-embedded human placenta tissue.