

## Product datasheet for **TA371432**

### MT ND1 (ND1) Rabbit Polyclonal Antibody

#### Product data:

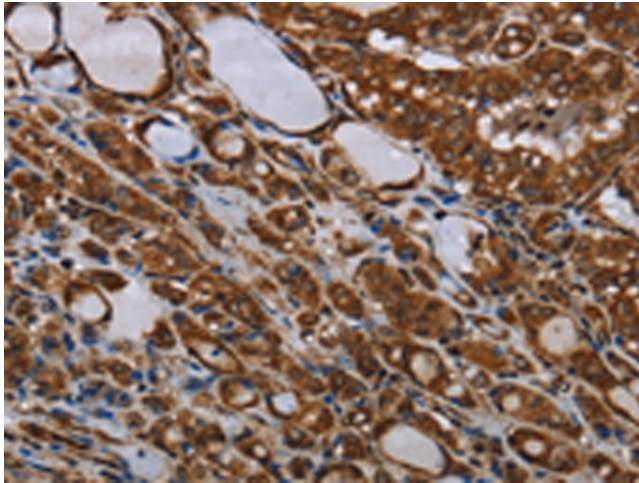
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human MT-ND1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Gene Name:	mitochondrially encoded NADH dehydrogenase 1
Database Link:	<a href="#">Entrez Gene 4535 Human P03886</a>



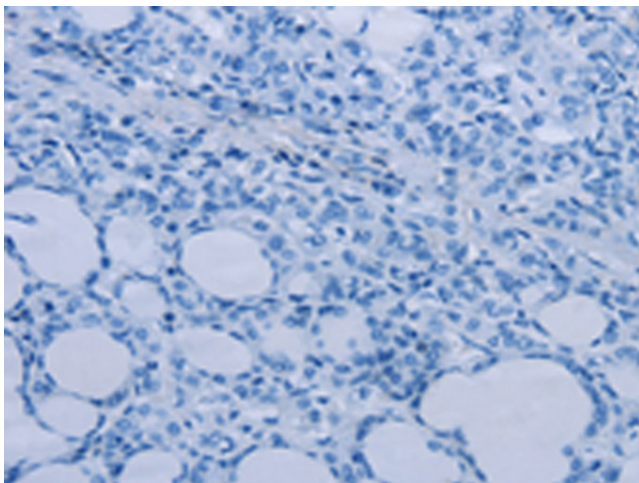
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**Background:**

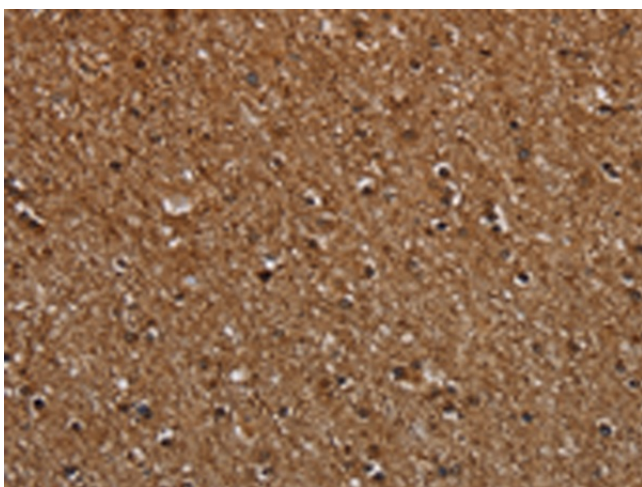
NADH:ubiquinone oxidoreductase (complex I) is an extremely complicated multiprotein complex located in the inner mitochondrial membrane. Human complex I is important for energy metabolism because its main function is to transport electrons from NADH to ubiquinone, which is accompanied by translocation 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 disease, and Parkinson disease.

**Product images:**

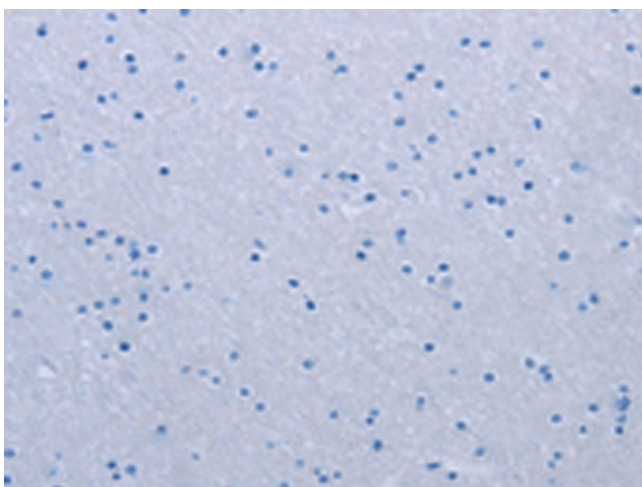
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA371432 (MT-ND1 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA371432 (MT-ND1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using TA371432 (MT-ND1 Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA371432 (MT-ND1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)