

## ND5 Polyclonal Antibody

Catalog No :	YT3001
Reactivity :	Human;Rat
Applications :	WB;ELISA
Target :	ND5
Fields :	>>Oxidative phosphorylation;>>Metabolic pathways;>>Thermogenesis;>>Retrograde endocannabinoid signaling;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
Gene Name :	MT-ND5
Protein Name :	NADH-ubiquinone oxidoreductase chain 5
Human Gene Id :	4540
Human Swiss Prot No :	P03915
Mouse Swiss Prot	P03921
No : Immunogen :	The antiserum was produced against synthesized peptide derived from human MT-ND5. AA range:328-377
Specificity :	ND5 Polyclonal Antibody detects endogenous levels of ND5 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.

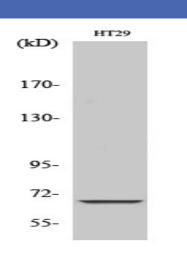


Best Tools for immunolo	
Concentration :	1 mg/ml
O	
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	70kD
Cell Pathway :	Oxidative phosphorylation;Parkinson's disease;
Background :	catalytic activity:NADH + ubiquinone = NAD(+) + ubiquinol.,disease:Defects in MT-ND5 are a cause of complex I mitochondrial respiratory chain deficiency [MIM:252010]. Complex I (NADH-ubiquinone oxidoreductase), the largest complex of the mitochondrial respiratory chain, contains more than 40 subunits. It is embedded in the inner mitochondrial membrane and is partly protruding in the matrix. Complex I deficiency is the most common cause of mitochondrial disorders. It represents largely one-third of all cases of respiratory chain deficiency and is responsible for a variety of clinical symptoms, ranging from neurological disorders to cardiomyopathy, liver failure, and myopathy.,disease:Defects in MT-ND5 are a cause of Leber hereditary optic neuropathy (LHON) [MIM:535000]. LHON is a maternally inherited disease resulting in acute or subacute loss of central vision, due to optic nerve dysfunction. Cardiac conduction defects and neurological defects have also been described in some patients. LHON results from primary mitochondrial DNA mutations affecting the respiratory chain complexes.,disease:Defects in MT-ND5 are a cause of Leigh syndrome (LS) [MIM:256000]. LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions.,disease:Defects in MT-ND5 are a cause of mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes syndrome (MELAS) [MIM:540000]. MELAS is a genetically heterogenious disorder, characterized by episodic vomiting, seizures, and recurrent cerebral insults resembling strokes and causing hemiparesis, hemianopsia, or cortical blindness.,disease:Defects in MT-ND5 are associated with features of myoclonic epilepsy associated with ragged-red fibers (MERRF) [MIM:545000]. MERRF is a mitochondrial encephalomyopathy characterized by myoclonic seizures. The prevalence in the general population of Europe has been estimated at 0.9 in 100'000 individuals, but the disease seems to be more common in the USA. Patients usually present dur
Function :	catalytic activity:NADH + ubiquinone = NAD(+) + ubiquinol.,disease:Defects in MT-ND5 are a cause of complex I mitochondrial respiratory chain deficiency

catalytic activity:NADH + ubiquinone = NAD(+) + ubiquinol.,disease:Defects in MT-ND5 are a cause of complex I mitochondrial respiratory chain deficiency [MIM:252010]. Complex I (NADH-ubiquinone oxidoreductase), the largest complex of the mitochondrial respiratory chain, contains more than 40 subunits. It is embedded in the inner mitochondrial membrane and is partly protruding in the



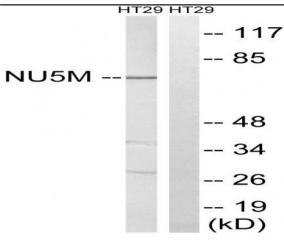
	matrix. Complex I deficiency is the most common cause of mitochondrial disorders. It represents largely one-third of all cases of respiratory chain deficiency and is responsible for a variety of clinical symptoms, ranging from neurological disorders to cardiomyopathy, liver failure, and myopathy., disease:Defects in MT-ND5 are a cause of Leber hereditary optic neuropathy (LHON) [MIM:535000]. LHON is a maternally inherited disease resulting in acute or subacute loss of central vision, due to optic nerve dysfunc
Subcellular	Mitochondrion inner membrane ; Multi-pass membrane protein .
Location :	
Expression :	Blood,Bone fossil,Bones,Breast cancer,Distant normal tissue,Glioma,
	10005
Sort :	10625
No4 :	1
Host :	Rabbit
Modifications :	Unmodified



## Products Images

Western Blot analysis of various cells using ND5 Polyclonal Antibody diluted at 1:1000





Western blot analysis of lysates from HT-29 cells, using MT-ND5 Antibody. The lane on the right is blocked with the synthesized peptide.

(kD) 117-85-48-34-26-19Western blot analysis of the lysates from Jurkat cells using MT-ND5 antibody.