

COX1 rabbit pAb

Cat No.: ES9123

For research use only

Overview

Product Name COX1 rabbit pAb

Host species Rabbit
Applications WB;ELISA
Species Cross-Reactivity Human;Mouse

Recommended dilutions WB 1:500-2000 ELISA 1:5000-20000

Immunogen Synthesized peptide derived from human protein . at

AA range: 380-460

Specificity COX1 Polyclonal Antibody detects endogenous levels

of protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20° C. Avoid repeated freeze-thaw cycles. Protein Name Cytochrome c oxidase subunit 1 (EC 1.9.3.1)

(Cytochrome c oxidase polypeptide I)

Gene Name MT-CO1 COI COXI MTCO1

Cellular localization Mitochondrion inner membrane; Multi-pass

membrane protein.

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 56kD
Human Gene ID 4512
Human Swiss-Prot Number P00395

Alternative Names

Background catalytic activity:4 ferrocytochrome c + O(2) + 4 H(+)

= 4 ferricytochrome c + 2 H(2)O., disease: Defects in

MT-CO1 are a cause of anemia sideroblastic

acquired idiopathic (AISA) [MIM:516030]; a disease characterized by inadequate formation of heme and

excessive accumulation of iron in

mitochondria., disease: Defects in MT-CO1 are a





cause of cytochrome c oxidase deficiency (COX deficiency) [MIM:220110]; also called mitochondrial complex IV deficiency. COX deficiency is a clinically heterogeneous disorder. The clinical features are ranging from isolated myopathy to severe multisystem disease, with onset from infancy to adulthood., disease: Defects in MT-CO1 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-CO1 are associated with recurrent myoglobinuria [MIM:550500]. Myoglobinuria consists of excretion of myoglobin in the urine., function: Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. CO I is the catalytic subunit of the enzyme. Electrons originating in cytochrome c are transferred via the copper A center of subunit 2 and heme A of subunit 1 to the bimetallic center formed by heme A3 and copper B.,pathway:Energy metabolism; oxidative phosphorylation., similarity: Belongs to the heme-copper respiratory oxidase family.,



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