Rabbit anti-Human MTCO1 Polyclonal Antibody | anti-MT-CO1 antibody

Anti-MTCO1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45705	**Rabbit**	**Human**	**Immunocytochemistry, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

MTCO1; Polyclonal Antibody; Anti-MTCO1 antibody; Cytochrome c oxidase subunit 1; mitochondrially encoded cytochrome c oxidase I; COI antibody; COX I antibody; COX1_HUMAN antibody; COXI antibody; Cytochrome c oxidase polypeptide I antibody; Cytochrome c oxidase subunit 1 antibody; Cytochrome C Oxidase subunit I antibody; Mitochondrially encoded cytochrome c oxidase I antibody; MT CO1 antibody; MT-CO1 antibody; MTCO 1 antibody; MTCO1 antibody; anti-MT-CO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	513
Applicable Applications for anti-MT-CO1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Gene Name	Mitochondrially encoded cytochrome c oxidase I
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MTCO1 (501-514aa PYHTFEEPVYMKS).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

ICC (Immunocytochemistry)
Anti-MTCO1 antibody, AAA45705, ICCICC: C6 Cell

IHC (Immunohiostchemistry)
Anti-MTCO1 antibody, AAA45705, IHC(P)IHC(P): Human Mammary Cancer Tissue

WB (Western Blot)
Anti-MTCO1 antibody, AAA45705, Western blottingLane 1: SMMC Cell LysateLane 2: MCF-7 Cell LysateLane 3: RAJI Cell LysateLane 4: SW620 Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-MT-CO1 antibody	**Description:** Rabbit IgG polyclonal antibody for Cytochrome c oxidase subunit 1(MT-CO1) detection. Tested with WB, IHC-P, ICC in Human. **Background:** Cytochrome c oxidase subunit I(CO1 or MTCO1) is 1 of 3 mitochondrial DNA(mtDNA) encoded subunits(MTCO1, MTCO2, MTCO3) of respiratory Complex IV. Complex IV is located within the mitochondrial inner membrane and is the third and final enzyme of the electron transport chain of mitochondrial oxidative phosphorylation. It is composed of 13 polypeptides. Subunits I, II, and III(MTCO1, MTCO2, MTCO3) are encoded by mtDNA while subunits IV, Va, Vb, VIa, VIb, VIc, VIIa, VIIb, VIIc, and VIII are nuclear encoded. The cytochrome c oxidase family of enzymes have 4 redox centers, 2 hemes and 2 copper centers. In mitochondrial Complex IV, the 2 hemes are a and a3 and the 2 coppers are CuA and CuB. The 2 hemes and CuB are bound to subunit I. Acin-Perez et al.(2003) identified a cell line containing single and double missense mutations in the cytochrome c oxidase(COX) subunit I gene of mouse mitochondrial DNA. And they hypothesized that deleterious mutations can arise and become predominant; cultured cells can maintain several mtDNA haplotypes at stable frequencies; the respiratory chain has little spare COX capacity; and that the size of a cavity in the vicinity of val421 in MTCO1I of animal COX may affect the function of the enzyme.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116977
NCBI GeneID	4512
UniProt Accession #	P00395; Q34770
Molecular Weight	57,041 Da
NCBI Official Full Name	Cytochrome c oxidase subunit 1
NCBI Official Synonym Full Names	mitochondrially encoded cytochrome c oxidase I
NCBI Official Symbol	MT-CO1
NCBI Official Synonym Symbols	COI; MTCO1; COX1
NCBI Protein Information	cytochrome c oxidase subunit I
UniProt Protein Name	Cytochrome c oxidase subunit 1
UniProt Gene Name	**MT-CO1**
UniProt Synonym Gene Names	COI; COXI; MTCO1
UniProt Entry Name	COX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/mtco1-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/45705