

## COX5a Polyclonal Antibody

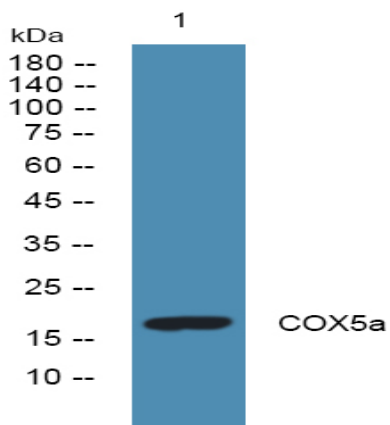
<b>Catalog No :</b>	YT1076
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	COX5a
<b>Fields :</b>	>>Oxidative phosphorylation;>>Metabolic pathways;>>Cardiac muscle contraction;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
<b>Gene Name :</b>	COX5A
<b>Protein Name :</b>	Cytochrome c oxidase subunit 5A mitochondrial
<b>Human Gene Id :</b>	9377
<b>Human Swiss Prot No :</b>	P20674
<b>Mouse Gene Id :</b>	12858
<b>Mouse Swiss Prot No :</b>	P12787
<b>Rat Gene Id :</b>	252934
<b>Rat Swiss Prot No :</b>	P11240
<b>Immunogen :</b>	Synthesized peptide derived from COX5a . at AA range: 40-120
<b>Specificity :</b>	COX5a Polyclonal Antibody detects endogenous levels of COX5a protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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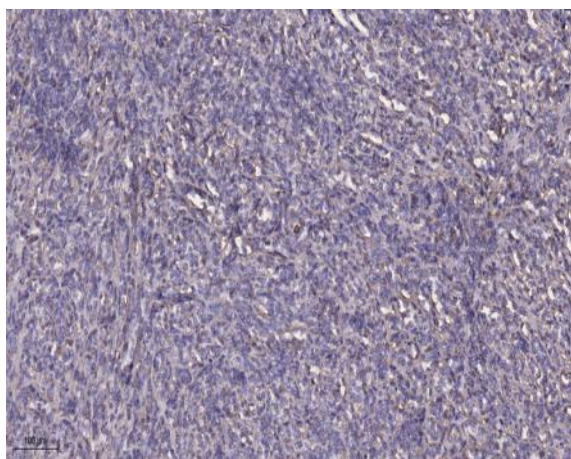
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	17kD
<b>Cell Pathway :</b>	Oxidative phosphorylation;Cardiac muscle contraction;Alzheimer's disease;Parkinson's disease;Huntington's disease;
<b>Background :</b>	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer of proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [provided by RefSeq, Jul 2008],
<b>Function :</b>	function:This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.,similarity:Belongs to the cytochrome c oxidase subunit 5A family.,
<b>Subcellular Location :</b>	Mitochondrion inner membrane ; Peripheral membrane protein ; Matrix side .
<b>Expression :</b>	Brain,Heart,Liver,

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## Products Images



Western blot analysis of lysates from SH-SY5Y cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).