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[Primary Antibody]

Rabbit Anti-COX6B2 antibody

Catalog Number: SL14009R

FOR RESEARCH USE ONLY

[DATASHEET]

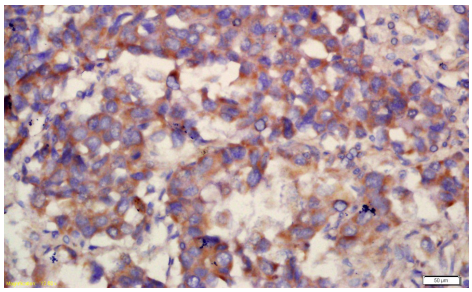
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	COX6B2
Immunogen:	KLH conjugated synthetic peptide derived from human COX6B2: 1-88/88
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Cow,Sheep)
Predicted MW.:	11kDa
Subcellular Location:	cytoplasmic
Background:	The cytochrome c oxidase (COX) family of proteins function as the final electron donor in the respiratory chain to drive a proton gradient across the inner mitochondrial membrane, ultimately resulting in the production of water. The mammalian COX apoenzyme is a dimer, with each monomer consisting of 13 subunits, some of which are mitochondrial and some of which are nuclear. Localized to the intermembrane space, COX6b2 (Cytochrome c oxidase subunit 6B2), also known as Cytochrome c oxidase subunit VIb isoform 2 and Cancer/testis antigen 59, is a 88 amino acid mitochondrial protein that is responsible for joining the two COX monomers to form the COX dimer. COX6b2 is specifically expressed in testis and is found to be upregulated in certain cancer cell lines. **Function:** Connects the two COX monomers into the physiological dimeric form.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

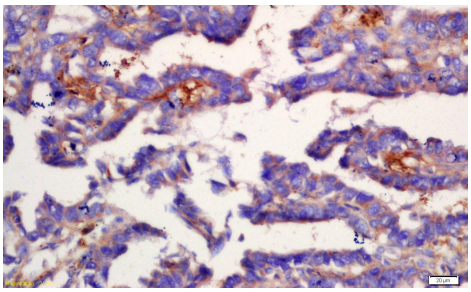
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	Subcellular Location: Mitochondrion intermembrane space. **Tissue Specificity:** Testis specific. Weak expression in thymus and heart. Expressed in cancer cell lines. **Similarity:** Belongs to the cytochrome c oxidase subunit 6B family. **Database links:** **Entrez Gene:** 125965 Human **Entrez Gene:** 333182 Mouse **Entrez Gene:** 654441 Rat **SwissProt:** Q6YFQ2 Human **SwissProt:** Q80ZN9 Mouse **SwissProt:** Q6YFQ1 Rat **Unigene:** 550544 Human **Unigene:** 29625 Mouse **Unigene:** 97699 Rat

[VALIDATION IMAGES]



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-COX6B2 Polyclonal Antibody, Unconjugated(SL14009R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Human lung cancer tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-COX6B2 Polyclonal Antibody, Unconjugated(SL14009R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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