

## COX5A polyclonal antibody

Catalog: BS5674

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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. Found in the inner mitochondrial membrane, COX5a, one of two subunits of the COX5 protein, is the heme A-containing chain of the oxidase family that converts one molecule of oxygen and four molecules of hydrogen to two molecules of water. When oxygen levels within the cell are high, transcription of COX5a, the aerobic subunit of the COX5 protein, is up-regulated as the rate of cellular respiration increases. Conversely, when oxygen levels are low, COX5a transcription decreases as the cell works to conserve oxygen by slowing the creation of water.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 17 kDa

### Swiss-Prot:

P20674

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

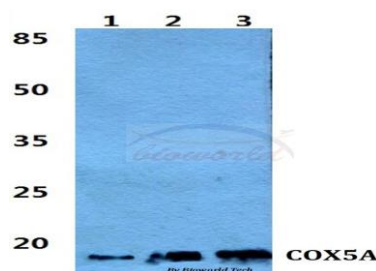
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

COX5A polyclonal antibody detects endogenous levels of COX5A protein.

### DATA:

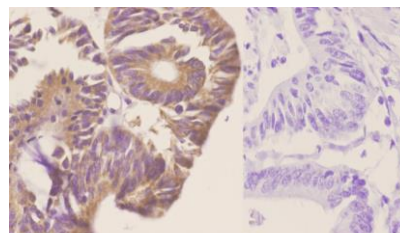


Western blot (WB) analysis of COX5A polyclonal antibody at 1:500 dilution

Lane1:MCF-7 cell lysate

Lane2:sp2/0 cell lysate

Lane3:PC12 cell lysate



BS 5674  
Lot: CN75131

Immunohistochemistry (IHC) analyzes of COX5A pAb in paraffin-embedded human colon carcinoma tissue at 1:50. showing Mitochondrion inner membrane staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151