

www.biossusa.com  
support@biossusa.com  
800.501.7654 [DOMESTIC]  
+1.781.569.5821 [INTERNATIONAL]



## bs-9896R-Cy5

### • Rabbit Anti-Cyclooxygenase 3/Cox3 Polyclonal Antibody, Cy5 conjugated

Conjugated Primary Antibodies

#### Background:

Cytochrome c oxidase subunit III, COX3 (also designated COIII, MTCO3 or oxidative phosphorylation (OxPhos) Complex IV, subunit III) is one of three mitochondrial DNA (mtDNA) encoded subunits (MTCO1-3) of respiratory Complex IV. Cytochrome c oxidase is a hetero-oligomeric enzyme composed of 13 subunits localized to the mitochondrial inner membrane and is the terminal enzyme complex of the electron transport chain. Complex IV catalyzes the reduction of molecular oxygen to water. The energy released is used to transport protons across the mitochondrial inner membrane. The resulting electro-chemical gradient is necessary for the synthesis of ATP. Complex IV contains 13 polypeptides; COX1, COX2 and COX3 (MTCO1-3) make up the catalytic core and are encoded by mtDNA while subunits IV, Va, Vb, VIa, VIb, VIc, VIIa, VIIb, VIIc and VIII are nuclear-encoded. Apoptosis in mammalian cells may be triggered by inhibition of mitochondrial COX. Specifically, reduction of COX3 has been associated with apoptosis and studies have shown that overexpression of COX3 results in a reduction of signals associated with apoptosis.

**Purification:** Was purified by Protein A and peptide affinity chromatography.

#### Storage:

Prepared as lyophilized powder or liquid and shipped on ice. Store at -20°C for one year. Protect from light.

#### Reconstitution:

If the antibody is in liquid form, no reconstitution needed.

Reconstitution is only required for the lyophilized antibody. Please refer to the reconstitution instruction card in the package.

**Size:** 100ul or 100ug lyophilized

**Concentration:** 1ug/uL

**Host:** Rabbit

#### Reactivities:

Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit,

#### Application:

- IF(1:50-200)
- Not yet tested in other applications. Optimal working dilutions must be determined by the end user.

**Antibody Type:** Polyclonal

**Isotype:** IgG

**Molecular Weight:** 66kDa

#### Preservatives:

10ug/uL BSA and 0.1% NaN<sub>3</sub>.

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

For full size images and description please click [HERE](#).

