

## ATP5A (K239) polyclonal antibody

Catalog: BS3814

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Mitochondrial ATP synthases (ATPases) transduce the energy contained in membrane electrochemical proton gradients into the energy required for synthesis of high-energy phosphate bonds. ATPases contain two linked complexes, F1, the hydrophilic catalytic core, and F0, the membrane-embedded protein channel. F1 consists of three  $\alpha$  chains and three  $\beta$  chains, which are weakly homologous, as well as one  $\gamma$  chain, one  $\delta$  chain and one  $\epsilon$  chain. F0 consists of three subunits, a, b and c. The  $\alpha$  chain of F1 is a regulatory subunit that contains 509 amino acids. Mitochondrial ATPase  $\alpha$  chain (ATP5A) localizes to the mitochondria and catalyzes ATP synthesis.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 60 kDa

### Swiss-Prot:

P25705

### 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

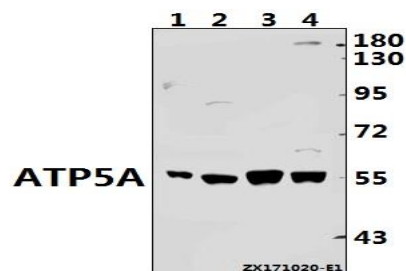
### Storage&Stability:

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

### Specificity:

ATP5A (K239) polyclonal antibody detects endogenous levels of ATP5A protein.

### DATA:



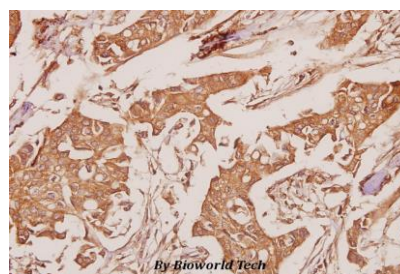
Western blot (WB) analysis of ATP5A (K239) pAb at 1:1000 dilution

Lane1: AML-12 whole cell lysate(40ug)

Lane2: PC12 whole cell lysate(40ug)

Lane3: HepG2 whole cell lysate(40ug)

Lane4: HEK293T whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of ATP5A (K239) pAb in paraffin-embedded human breast carcinoma tissue at 1:50.

### Note:

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

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