

AK2 polyclonal antibody

Catalog: BS6319

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

Adenylate kinases 1-5 (designated AK1-5) are a set of enzymes that regulate the phosphorylation state of intracellular adenine nucleotides, which are the principle high-energy phosphoryl-carrying molecules in living cells. AKs influence metabolic signals, which include gene expression, ion channel activity and protein kinase-mediated signaling, by catalyzing phosphoryl transfer between adenine nucleotides (AMP, ADP, ATP). Inherited mutations leading to AK deficiencies in erythrocytes have been implicated in hemolytic anemia. AK2 is found in the mitochondria of liver and heart tissues and is the only AK that localizes to the mitochondrial intermembrane space. In apoptotic cells, AK2 is the only AK that translocates into the cytosol concomitantly with cytochrome c, suggesting that only intermembrane proteins are released from mitochondria during the early stages of apoptosis.

Product:

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

Molecular Weight:

~ 32 kDa

Swiss-Prot:

P54819

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: 1:500~1:2000

IHC: 1:50~1:200

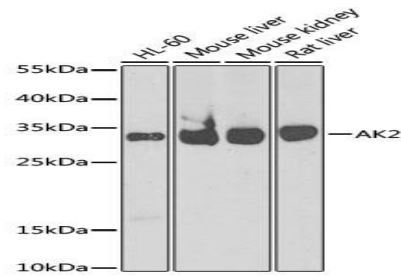
Storage&Stability:

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

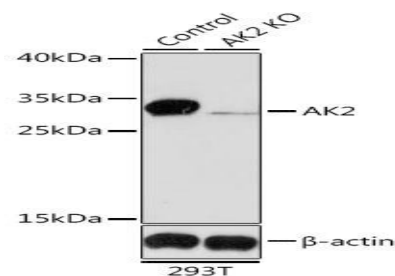
Specificity:

AK2 polyclonal antibody detects endogenous levels of AK2 protein.

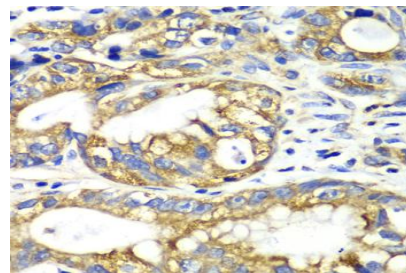
DATA:



WesternBlot (WB) analysis of AK2 polyclonal antibody



Western blot analysis of extracts from normal (control) and AK2 knockout (KO) 293T cells, using AK2 antibody.



Immunohistochemistry of paraffin-embedded human gastric cancer using AK2 antibody.

Note:

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

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