

HK1

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 102kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human HK1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

HK1;HK1-ta;HK1-tb;HK1-tc;HK1;HXK1 ;

Catalog #: A1054

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 3098

Isotype: IgG

Swiss Prot: P19367

Purity: Affinity purification

For research use only.

Background:

Hexokinase catalyzes the conversion of glucose to glucose-6-phosphate, the first step in glycolysis. Four distinct mammalian hexokinase isoforms, designated as hexokinase I, II, III, and IV (glucokinase), have been identified. Hexokinases I, II, and III are associated with the outer mitochondrial membrane and are critical for maintaining an elevated rate of aerobic glycolysis in cancer cells (Warburg Effect) (1) in order to compensate for the increased energy demands associated with rapid cell growth and proliferation (2,3).

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