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## **HK1 (3A10) Antibody**

**Subcategory:** Mouse Monoclonal Antibody

**Cat. No.:** 253049

**Unit:** 0.1 ml

**Description:**

HK1 (Hexokinase-1) is an enzyme in the hexokinase family, playing a role in the carbohydrate metabolism. The hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose- 6-phosphate. Four hexokinase isoenzymes have been identified, including hexokinase I (HXK I), hexokinase II (HXK II), hexokinase III (HXK III) and hexokinase IV (HXK IV, also designated glucokinase or GCK). Hexokinases I-III each contain an N-terminal cluster of hydrophobic amino acids. Glucokinase lacks the N-terminal hydrophobic cluster. The hydrophobic cluster is thought to be necessary for membrane binding. This is substantiated by the finding that glucokinase has lower affinity for glucose than do the other hexokinases. HK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines.

**Isotype:** Mouse IgG1

**Applications:** WB, IHC, IF

**Species Reactivity:** H, M, R

**Format:** Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

**Alternate Names:** Hexokinase-1; Brain form hexokinase, Hexokinase type I; HK I; HK1

**Accession No.:** P19367

**Antigen:** Purified recombinant fragment of human HK1 expressed in E. coli.

**Application Notes:** WB: 1:500-1:2000; IHC: 1:200-1:1000; IF: 1:200-1:1000

**Storage:** Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.