HK2 (3D3) Antibody

Subcategory: Mouse Monoclonal Antibody
Cat. No.: 253048
Unit: 0.1 ml

Description:
HK2 (Hexokinase-2) 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. Hexokinase 2 is the predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells.

Isotype: Mouse IgG1
Applications: WB, IHC, IF
Species Reactivity: H
Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.
Alternate Names: Hexokinase-2; Hexokinase type II; HK II; Muscle form hexokinase; HK2
Accession No.: P52789

Antigen: Purified recombinant fragment of human HK2 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.