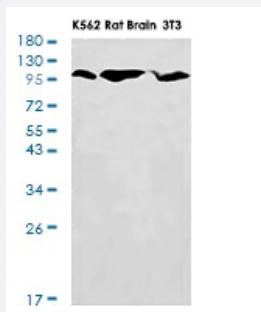


RecomAb™

# HK2 recombinant monoclonal antibody, clone R06-4F4

Catalog # RAB01256      Size 100 uL

## Applications



### Western Blot

Western blot analysis of Hexokinase I in K562, rat Brain, 3T3 lysates using Hexokinase I antibody.

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HK2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human Hexokinase II.
Theoretical MW (kDa)	Calculated MW: 102 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Immunoprecipitation Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

**Storage Instruction**

Store at 4°C. For longer storage, aliquot and store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of Hexokinase I in K562, rat Brain, 3T3 lysates using Hexokinase I antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunoprecipitation

## Gene Info — HK2

**Entrez GeneID**[3099](#)**Protein Accession#**[P52789](#)**Gene Name**

HK2

**Gene Alias**

DKFZp686M1669, HKII, HXK2

**Gene Description**

hexokinase 2

**Omim ID**[601125](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. 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. [provided by RefSeq]

**Other Designations**

hexokinase-2, muscle

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)
- [Streptomycin biosynthesis](#)
- [Type II diabetes mellitus](#)