



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HK2 monoclonal antibody (M01), clone 4H1

產品編號 # : H00003099-M01

規格 : [ 100 ug ]

[List All](#)

### Specification

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant HK2.

**Immunogen:** HK2 (AAH21116, 818 a.a. ~ 917 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

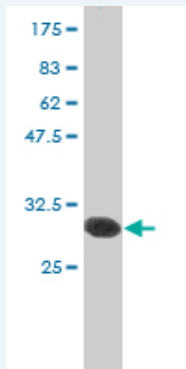
**Sequence:** IVKEVCTVARRAAQLCGAGMAAVVDRIENRGLDALKVTVGVDGTLYK LPHFPAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACRIREAG QR

**Host:** Mouse

**Reactivity:** Human, Rat

**Isotype:** IgG2a Kappa

**Quality Control Testing:** Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (36.63 KDa) .

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:** [Download](#)

**Datasheet:** [Download](#)

### Publication Reference

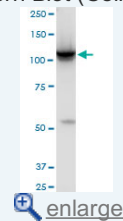
1. Expression and role in glycolysis of human ADP-dependent glucokinase. Richter S, Richter JP, Mehta SY, Gribble AM, Sutherland-Smith AJ, Stowell KM, Print CG, Ronimus RS, Wilson WR. Mol Cell Biochem. 2012 Jan 5. [Epub ahead of print]

### Applications

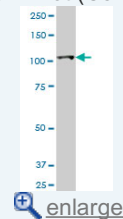
**Western Blot (Cell lysate)**

### Application Image

Western Blot (Cell lysate)

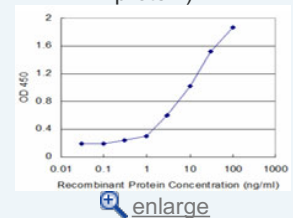


Western Blot (Cell lysate)

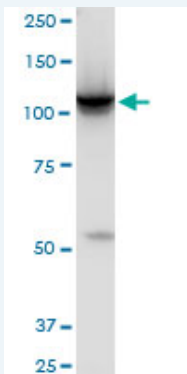


Western Blot (Recombinant protein)

Sandwich ELISA (Recombinant protein)



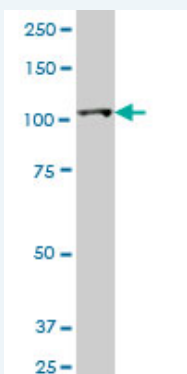
ELISA



HK2 monoclonal antibody (M01), clone 4H1. Western Blot analysis of HK2 expression in PC-12(Cat # L012V1 ).

[Protocol Download](#)

#### Western Blot (Cell lysate)



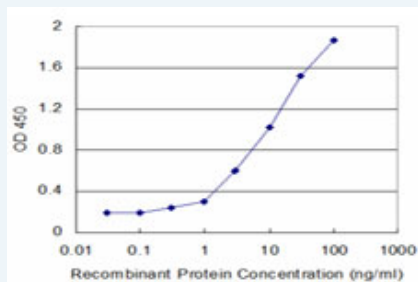
HK2 monoclonal antibody (M01), clone 4H1. Western Blot analysis of HK2 expression in A-431 ( Cat # L015V1 ).

[Protocol Download](#)

#### Western Blot (Recombinant protein)

[Protocol Download](#)

#### Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged HK2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

#### ELISA

#### Gene Information

Entrez GeneID: [3099](#)

GeneBank [BC021116](#)  
Accession#:

Protein [AAH21116](#)  
Accession#:

Gene Name: HK2

Gene Alias: DKFZp686M1669, HKII, HXK2

**Gene** hexokinase 2

**Description:**

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**Omim ID:** [601125](#)

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**Gene Ontology:** [Hyperlink](#)

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**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]

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**Other** hexokinase-2, muscle

**Designations:**

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**Gene Pathway**

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[Amino sugar and nucleotide sugar metabolism](#)

[Biosynthesis of alkaloids derived from histidine and purine](#)

[Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid](#)

[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](#)

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