

Datasheet: VMA00230

Description:	MOUSE ANTI HEXOKINASE 1
Specificity:	HEXOKINASE 1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	7A7
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites.

Buffer Solution

Phosphate buffered saline.

Preservative

0.09% Sodium Azide (NaN₃).

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml.

Immunogen Purified recombinant fragment of human hexokinase 1 expressed in *E. coli*

External Database Links

UniProt:

[P19367](#) [Related reagents](#)

Entrez Gene:

[3098](#) HK1 [Related reagents](#)

Specificity **Mouse anti Human hexokinase 1 antibody** recognizes hexokinase 1, also known as HK I, brain form hexokinase, glycolytic enzyme and hexokinase type I.

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. Encoded by the HK1 gene, hexokinase 1 represents a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in HK1 have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of HK1 results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein (provided by RefSeq, Apr 2009).

Mouse anti Human hexokinase 1 antibody detects a band of 102 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting Anti hexokinase 1 detects a band of approximately 102 kDa in K562 cell lysates.

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee 12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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