

Datasheet: MCA2698

BATCH NUMBER 171205

Description:	MOUSE ANTI HUMAN HEXOKINASE 1
Specificity:	HEXOKINASE 1
Other names:	HEXOKINASE TYPE I
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4D7
Isotype:	IgG2a
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

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

Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 10% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human hexokinase 1 (amino acids 1-917) purified from <i>Escherichia coli</i> .
External Database Links	<p>UniProt: P19367 Related reagents</p> <p>Entrez Gene: 3098 HK1 Related reagents</p>
RRID	AB_2116881
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>Mouse anti Human hexokinase 1, clone 4D7 recognizes human hexokinase 1, a 102 kDa major allosteric enzyme of the glycolytic pathway, which catalyses the phosphorylation of glucose to form glucose-6-phosphate (Glc-6-P).</p> <p>Hexokinase 1 is the first of four distinct mammalian hexokinase isozymes (hexokinase type 1 to 4), expressed in the outer membrane of mitochondria and is regulated (inhibited) by its product Glc-6-P. A deficiency in hexokinase 1 is implicated in the rare hereditary autosomal recessive disease known as nonspherocytic haemolytic anaemia (Newman et al. 1980).</p> <p>Mouse anti hexokinase 1, clone 4D7 recognizes an epitope common to all isoforms of human hexokinase.</p>
Western Blotting	MCA2698 detects a band of approximately 102kDa in HepG2 cell lysates.
Further Reading	1. Wilson, J.E. (2003) Isozymes of mammalian hexokinase: structure, subcellular localization and metabolic function. J Exp Biol. 206 (Pt 12): 2049-57.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10049 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA269810049>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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