

Datasheet: MCA2698

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 from ascites			

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 Escherichia coli.
External Database Links	UniProt: P19367 Related reagents Entrez Gene: 3098 HK1 Related reagents
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	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). 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). Mouse anti hexokinase 1, clone 4D7 recognizes an epitope common to all isoforms of human hexokinase.
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. <u>J Exp Biol. 206 (Pt 12): 2049-57.</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:

https://www.bio-rad-antibodies.com/SDS/MCA2698

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Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)

Rabbit Anti Mouse IgG (STAR12...)

RPE

Goat Anti Mouse IgG (STAR70...)

FITC

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR76...) RPE

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 (STAR13...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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 Tel: +1 800 265 7376
 Worldwide
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 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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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 'M405887:220916'

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