

Datasheet: MCA4625GA

| | |
|----------------------|-----------------------------------|
| Description: | MOUSE ANTI HUMAN HEXOKINASE 1 & 2 |
| Specificity: | HEXOKINASE 1 & 2 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 1A7 |
| Isotype: | IgG1 |
| 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 - 1/3000 |

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 |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from ascites |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.1% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Recombinant human hexokinase 2 (amino acids 1-917) purified from <i>E. coli</i> . |
| External Database Links | UniProt: P52789 Related reagents |

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

Entrez Gene:

[3099](#) HK2 [Related reagents](#)

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

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the mouse FO myeloma cell line.

Specificity **Mouse anti Human Hexokinase 1&2, clone 1A7** recognizes human hexokinase 1 (HK1) and hexokinase 2 (HK2), ~102 kDa allosteric enzymes of the glycolytic pathway, which catalyse the phosphorylation of glucose to form glucose-6-phosphate (Glc-6-P).

Hexokinase 1 is predominantly expressed in the brain while Hexokinase 2 is predominantly expressed in skeletal muscle. Both are members of four distinct mammalian hexokinase isozymes (hexokinase type I to IV), which localize to the outer membrane of mitochondria and is regulated (inhibited) by its product Glc-6-P ([Wolf et al. 2011](#))

Western Blotting MCA4625GA detects a band of approximately 102 kDa in Jurkat 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 Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10303 available at:
10303: <https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)

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

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

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

Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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