

Polyclonal Antibody to Hexokinase-1 - Biotin

Alternate names:	Brain form hexokinase, HK1, Hexokinase type I
Catalog No.:	R1093B
Quantity:	10 mg
Concentration:	10.0 mg/ml (by UV absorbance at 280 nm)
Background:	Hexokinase is an allosteric enzyme inhibited by its product glucose-6-phosphate. It is the first step of several metabolic pathways.
Uniprot ID:	P04807
NCBI:	NP_011261.1
GeneID:	852639
Host:	Rabbit
Immunogen:	Hexokinase [Yeast].
Format:	State: Lyophilized purified Ig fraction. Purification: Multi-step process. Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative. Label: Biotin – Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) Reconstitution: Restore with 1.0 ml of deionized water (or equivalent).
Applications:	Suitable for Immunoblotting, ELISA, Immunohistochemistry, Immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates requiring lot-to-lot consistency. Recommended Dilutions: This product has been assayed against 1.0 ug of Hexokinase in a standard capture ELISA using Peroxidase Conjugated Streptavidin (RA021HRP) and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1/4,000-1/20,000 of the reconstitution concentration is suggested for this product. Western Blot: 1/500 - 1/2,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multistep process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Hexokinase [Yeast]. Cross reactivity against Hexokinase from other sources may occur but have not been

specifically determined.

Storage:

Store vial at 2-8°C prior to restoration.

After reconstitution store undiluted antibody at 2-8 °C for one month or (in aliquots) at -20 °C for long term. Centrifuge product if not completely clear after standing at room temperature.

Dilute only prior to immediate use.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

Product Citations:

Purchased from Acris:

HRP conjugated antibody is cited in:

1. Eliyahu E, Pnueli L, Melamed D, Scherrer T, Gerber AP, Pines O, et al. Tom20 mediates localization of mRNAs to mitochondria in a translation-dependent manner. *Mol Cell Biol.* 2010 Jan;30(1):284-94. doi: 10.1128/MCB.00651-09. Epub . PubMed PMID: 19858288.

General Readings:

1. Bayer & Wilchek *Methods in Enzymology* 184; 138-160, 1990. (Conjugation)