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Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated

Hexokinase Antibody Biotin Conjugated
Catalog # ASR4742

Specification

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Product Information

Host	**Rabbit**
Conjugate	**Biotin**
Target Species	**Yeast**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Hexokinase Biotin Conjugated Antibody has been tested by ELISA and western blot. This product is assayed against 1.0 ug of Hexokinase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Hexokinase [Yeast]**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Additional Information

Gene ID 850614

Other Names
852639

Purity
Anti-Hexokinase is an IgG fraction antibody purified from monospecific antiserum by a multi-step 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 Condition
Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Protein Information

Name HXK1

Synonyms HKA

Function
Catalyzes the phosphorylation of hexose, such as D-glucose and D-fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D- fructose 6-phosphate, respectively) (PubMed:332086). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed:332086).

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Images

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody Biotin Conjugated - Background

Anti-Hexokinase antibody recognizes hexokinase which phosphorylates hexoses. Hexokinase uses one ATP molecule when phosphorylating six-carbon sugars. In mammals there are four isozymes of hexokinase, the most notable of which is hexokinase IV, also known as glucokinase which is highly specific for glucose. Phosphorylation of hexoses commit them to certain metabolic pathways. For example, phosphorylation of glucose to glucose-6-phosphate limits it to glycolysis or glycogen synthesis. Anti-Hexokinase antibody is ideal for investigators interested in Metabolism, Cardiology, or Enzymology.