

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody
Hexokinase Antibody
Catalog # ASR3794**Specification**

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

Host	Rabbit
Conjugate	Unconjugated
Target Species	Yeast
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Hexokinase is suitable for use in ELISA, western blot, and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Hexokinase [Yeast]
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-HEXOKINASE (Yeast) (RABBIT) Antibody - Additional Information**Gene ID** 850614**Other Names**
852639**Purity**

This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Hexokinase [Yeast]. Cross reactivity against Hexokinase from other tissues and species 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 - Protein Information

Name HXK1

Synonyms HKA

Function

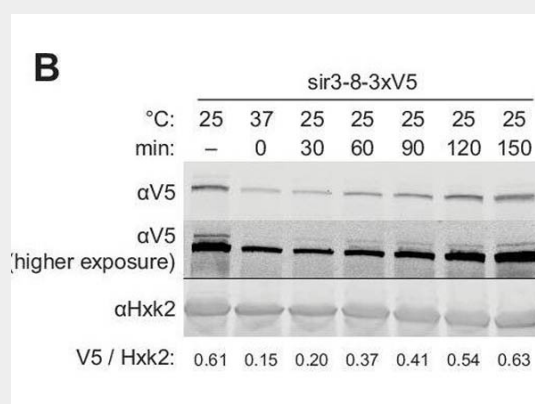
Catalyzes the phosphorylation of hexose, such as D-glucose and D-fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D-fructose 6-phosphate, respectively) (PubMed: [332086](http://www.uniprot.org/citations/332086)). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: [332086](http://www.uniprot.org/citations/332086)).

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

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



Repression of HML and HMR preceded heterochromatin maturation. (A) Schematic of temperature-shift time course with sir3-8-M.ECOGII. (B) Protein immunoblotting in a strain expressing sir3-8-3xV5 (JRY13467) constitutively at 25°C (first lane), constitutively at 37°C (second lane), and at 30, 60, 90, 120, and 150 min after a shift to 25°C. Top row is 3xV5-tagged sir3-8 protein, the middle row is the same as the top row but at a higher exposure, and the bottom row is the loading control Hxk2. The unedited blot is in . (C) Aggregate methylation results at HML (top) and HMR (bottom) from long-read Nanopore sequencing of strains expressing sir3-8-M.ECOGII (JRY13114) grown constitutively at 25 or 37°C. Plots are as described in Figure 1D. (D) Aggregate methylation results at HML (top) and HMR (bottom) from long-read Nanopore sequencing of a strain expressing sir3-8-M.ECOGII (JRY13134) grown constitutively at 25°C (dotted gray line) and collected at 0, 15, 45, and 90 min after a temperature switch from 37 to 25°C. (E) RT-qPCR of HML ϵ ±2 (left) and HMRa1 (right) mRNA in strains expressing SIR3-M.ECOGII (black, JRY13027, JRY12840), sir3-Δ::M.ECOGII (green, JRY13029, JRY13030), or sir3-8-M.ECOGII (purple, JRY13114, JRY13134) collected at 0, 30, 60, 90, 120, and 150 min after a temperature switch from 37 to 25°C. Points are the average of three biological replicates and

bars mark one standard deviation. DIP-seq of sir3-8-M.ECOGII (JRY13114). Shown are 10 kb regions centered at HML (left) and HMR (right). Cells were grown constitutively at either 25 or 37°C. Input results are plotted but not visible due to the strong DIP-seq signals. Nanopore sequencing over temperature switch time course (biological replicate). Aggregate methylation results at HML (top) and HMR (bottom) from long-read Nanopore sequencing of a strain expressing sir3-8-M.ECOGII (JRY13114) grown constitutively at 25°C (dotted gray line) and collected at 0, 15, 45, and 90 min after a temperature switch from 37 to 25°C. Figure provided by CiteAb. Source: Elife, PMID: 35073254.

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

Hexokinase is the main glucose phosphorylating enzyme. It may play a regulatory role in both induction and repression of gene expression by glucose. In yeast there are three glucose-phosphorylating isoenzymes, designated hexokinase I, II and glucokinase. This protein is involved in the pathway hexose metabolism, which is part of Carbohydrate metabolism.