

## Anti-Hexokinase 1 HK1 Antibody

Catalog Number: A01504-2

### About HK1

There are four major glucose-phosphorylating isoenzymes, designated Hexokinase 1 I, II, III, and IV (1). Hexokinase 1 activity is involved in the first step in several metabolic pathways including phosphorylation of glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway (1,2). Hexokinase 1 2 is the predominant Hexokinase 1 isozyme expressed in insulin-responsive tissues such as skeletal muscle and its expression is insulin-responsive (3). It is involved in the increased rate of glycolysis seen in rapidly growing cancer cells (4).

### Overview

|                      |                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Hexokinase 1 HK1 Antibody                                                                                                                            |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                         |
| Description          | Boster Bio Anti-Hexokinase 1 HK1 Antibody (Catalog # A01504-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | ELISA, IF, IHC-P, WB                                                                                                                                      |
| Clonality            | Polyclonal Clone: SK7                                                                                                                                     |
| Formulation          | Hexokinase 1 antibody is supplied in PBS containing 0.02% sodium azide.                                                                                   |
| Storage Instructions | Hexokinase 1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.                                                         |
| Host                 | Rabbit                                                                                                                                                    |
| Uniprot ID           | P19367                                                                                                                                                    |

### Technical Details

|                            |                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                  | Hexokinase 1 antibody was raised against a 16 amino acid peptide near the carboxy terminus of human Hexokinase 1. The immunogen is located within amino acids 830 - 880 of Hexokinase 1. |
| Predicted Reactive Species | Bovine                                                                                                                                                                                   |
| Cross Reactivity           | Hexokinase 1 antibody is human, mouse and rat reactive. Multiple isoforms of Hexokinase 1 are known to exist.                                                                            |
| Isotype                    | IgG                                                                                                                                                                                      |
| Form                       | Liquid                                                                                                                                                                                   |
| Concentration              | 1 mg/mL                                                                                                                                                                                  |
| Purification               | Hexokinase 1 antibody is affinity chromatography purified via peptide column.                                                                                                            |
| Suggested Dilutions        | Dilute the sample so that the expected range of concentrations fall within the detection range of this                                                                                   |

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

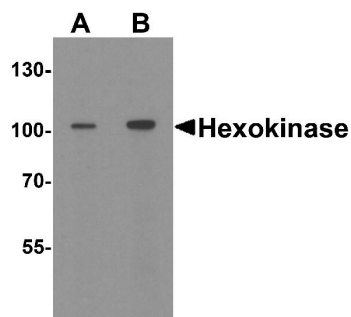
Boster Bio's internal QC testing used:

Hexokinase 1 antibody can be used for detection of Hexokinase 1 by Western blot at 1 - 2 ug/ml.

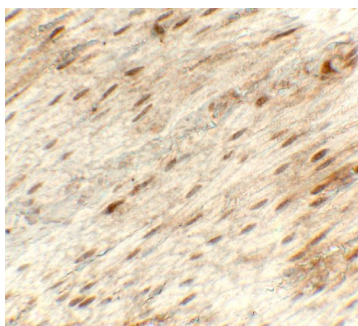
Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in rat samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

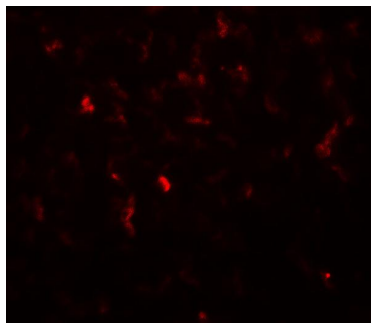
## Anti-Hexokinase 1 HK1 Antibody (A01504-2) Images



Western blot analysis of Hexokinase 1 in rat bladder tissue lysate with Hexokinase 1 antibody at (A) 1 and (B) 2  $\mu$ g/ml.



Immunohistochemistry of Hexokinase 1 in rat stomach tissue with Hexokinase 1 antibody at 5  $\mu$ g/mL.



Immunofluorescence of Hexokinase 1 in rat stomach tissue with Hexokinase 1 antibody at 20  $\mu$ g/mL.

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