

## Mouse HK1 Monoclonal Antibody | anti-HK1 antibody

HK1 antibody

|                              |                      |                                                                                      |
|------------------------------|----------------------|--------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA74870</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence, ELISA</b> |
|------------------------------|----------------------|--------------------------------------------------------------------------------------|

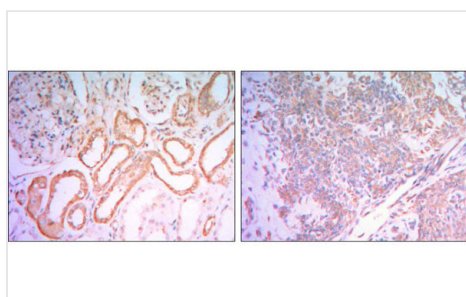
### PRODUCT SYNONYMS

HK1; Monoclonal Antibody; HK1 antibody; Monoclonal HK1; Anti-HK1; HK 1; HK-1; anti-HK1 antibody

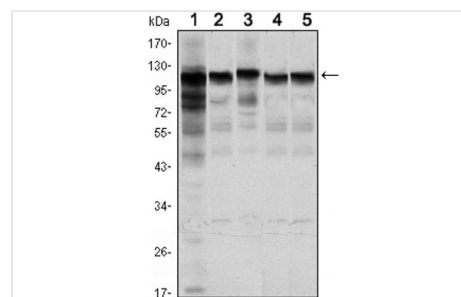
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                  | 7A7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                   | Supplied as a liquid in ascitic fluid containing 0.03% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration                                 | 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length                               | 917                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-HK1 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Biological Significance                       | The hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose- 6-phosphate. Four hexokinase isoenzymes have been identified, including hexokinase I (HXK I), hexokinase II (HXK II), hexokinase III (HXK III) and hexokinase IV (HXK IV, also designated glucokinase or GCK). Hexokinases I-III each contain an N-terminal cluster of hydrophobic amino acids. Glucokinase lacks the N-terminal hydrophobic cluster. The hydrophobic cluster is thought to be necessary for membrane binding. This is substantiated by the finding that glucokinase has lower affinity for glucose than do the other hexokinases. HK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines. |
| Cross-Reactivity                              | Human, Rat, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen                                     | HK1 antibody was raised in Mouse using a purified recombinant fragment of human HK1 expressed in E Coli as the immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                       | Store at 4 degree C for short term storage. Store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human salivary gland tissues (left) and kidney tissues (right) using HK1 antibody with DAB staining.


**WB (Western Blot)**

Western Blot showing HK1 antibody used against Jurkat (1), HeLa (2), HepG2 (3), MCF-7 (4) and PC-12 (5) cell lysate.

ADDITIONAL INFORMATION

|                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| Related Product Information for anti-HK1 antibody | Mouse monoclonal HK1 antibody              |
| Product Categories/Family for anti-HK1 antibody   | <a href="#">Nutrition &amp; Metabolism</a> |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">188497754</a>                                                                                                                                                                                                      |
| NCBI GeneID                      | <a href="#">3098</a>                                                                                                                                                                                                           |
| NCBI Accession #                 | <a href="#">NP_000179.2</a>                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000188.2</a>                                                                                                                                                                                                    |
| UniProt Accession #              | <a href="#">P19367</a> ; <a href="#">O43443</a> ; <a href="#">O43444</a> ; <a href="#">O75574</a> ; <a href="#">Q5VTC3</a> ; <a href="#">Q96HC8</a> ; <a href="#">Q9NNZ4</a> ; <a href="#">Q9NNZ5</a> ; <a href="#">E9PCK0</a> |
| Molecular Weight                 | 101,085 Da                                                                                                                                                                                                                     |
| NCBI Official Full Name          | hexokinase-1 isoform HKI                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | hexokinase 1                                                                                                                                                                                                                   |
| NCBI Official Symbol             | HK1                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | HKD; HKI; HXK1; HMSNR; HK1-ta; HK1-tb; HK1-tc                                                                                                                                                                                  |
| NCBI Protein Information         | hexokinase-1                                                                                                                                                                                                                   |
| UniProt Protein Name             | Hexokinase-1                                                                                                                                                                                                                   |
| UniProt Gene Name                | <b>HK1</b>                                                                                                                                                                                                                     |
| UniProt Synonym Gene Names       | HK I                                                                                                                                                                                                                           |
| UniProt Entry Name               | HXK1_HUMAN                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hk1-antibody-clone-7a7-western-blot-immunohistochemistry-immunofluorescence-elisa/74870>