

**HK3 (Hexokinase III) Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP8139d****Specification**

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**HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [P52790](#)  
Other Accession [NP\\_002106](#)

**HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 3101

**Other Names**

Hexokinase-3, Hexokinase type III, HK III, HK3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP8139d was selected from the N-term region of human HK3 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Protein Information**

**Name** HK3 ([HGNC:4925](#))

**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:<a href="http://www.uniprot.org/citations/8717435" target="\_blank">8717435</a>). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed:<a href="http://www.uniprot.org/citations/8717435" target="\_blank">8717435</a>).

**HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Images**

### **HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - Background**

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. This gene encodes hexokinase 3. Similar to hexokinases 1 and 2, this allosteric enzyme is inhibited by its product glucose-6-phosphate.

### **HK3 (Hexokinase III) Antibody (N-term) Blocking peptide - References**

Sui, D., et al., Arch. Biochem. Biophys. 382(2):262-274 (2000). Lowes, W., et al., Biochim. Biophys. Acta 1379(1):134-142 (1998). Furuta, H., et al., Genomics 36(1):206-209 (1996). Palma, F., et al., Mol. Cell. Biochem. 155(1):23-29 (1996). Colosimo, A., et al., Cytogenet. Cell Genet. 74(3):187-188 (1996).