

HK3 (Hexokinase III) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP8139e**Specification**

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

Primary Accession [P52790](#)
Other Accession [NP_002106](#)

HK3 (Hexokinase III) Antibody (C-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 [AP8139e](/product/products/AP8139e) was selected from the C-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 (C-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: [8717435](http://www.uniprot.org/citations/8717435)). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (PubMed: [8717435](http://www.uniprot.org/citations/8717435)).

HK3 (Hexokinase III) Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

HK3 (Hexokinase III) Antibody (C-term) Blocking peptide - Images

HK3 (Hexokinase III) Antibody (C-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 (C-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).