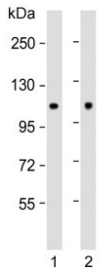
Hexokinase Antibody / HK1 (F54454)

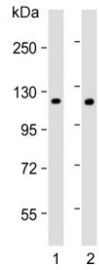
Catalog No.	Formulation	Size
F54454-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54454-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

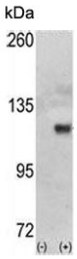
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P19367
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25
Limitations	This Hexokinase antibody is available for research use only.



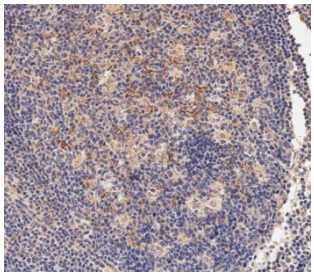
Western blot testing of human 1) MCF7 and 2) rat brain lysate with Hexokinase antibody. Predicted molecular weight ~102 kDa.



Western blot testing of rat 1) C2C12 and 2) brain lysate with Hexokinase antibody. Predicted molecular weight ~102 kDa.



Western blot testing of 1) non-transfected and 2) transfected 293 cell lysate with Hexokinase antibody.



IHC testing of FFPE human tonsil tissue with Hexokinase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. The hexokinase gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of the hexokinase gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. HK1 encodes the ubiquitously expressed isoform. Its 5' end includes an exon which is unique to this transcript and which encodes a distinct N-terminus that contains the porin binding domain (PBD). The porin binding domain mediates association with the mitochondrial membrane.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Hexokinase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 78-108 from the human protein was used as the immunogen for the Hexokinase antibody.

Storage

Aliquot the Hexokinase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com