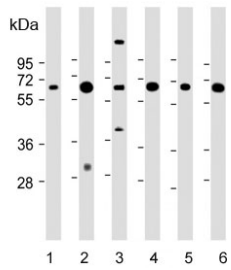
PEPCK1 Antibody / PCK1 / PEPC (F54453)

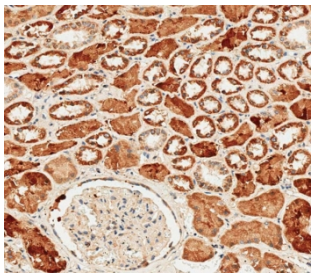
Catalog No.	Formulation	Size
F54453-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54453-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

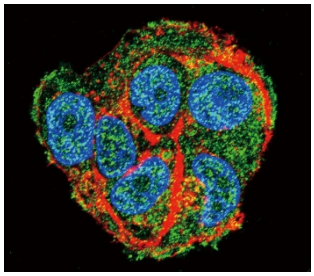
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P35558
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25
Limitations	This PEPCK1 antibody is available for research use only.



Western blot testing of 1) human liver, 2) human kidney, 3) human NCI-H460, 4) mouse liver, 5) mouse kidney and 6) rat kidney lysate with PEPCK1 antibody. Predicted molecular weight: ~69 kDa.



IHC testing of FFPE human kidney tissue with PEPCK1 antibody. HIER: steam section in pH9 EDTA buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HepG2 cells with PEPCK1 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).

Description

This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. A mitochondrial isozyme of the encoded protein also has been characterized.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PEPCK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 592-622 from the human protein was used as the immunogen for the PEPCK1 antibody.

Storage

Aliquot the PEPCK1 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