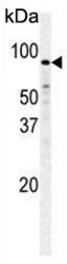
# PFKM Antibody / Fructose 6 Phosphate Kinase (F54966)

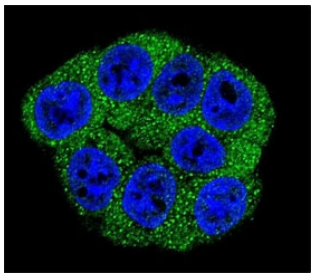
| Catalog No. | Formulation | Size |
|---|---|---|
| F54966-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54966-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

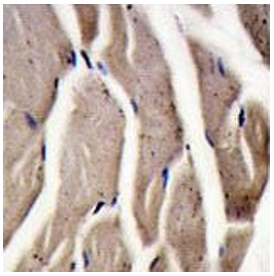
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Purified |
| **UniProt** | P08237 |
| **Localization** | Cytoplasmic |
| **Applications** | Immunofluorescence : 1:10-1:50<br>Immunohistochemistry (FFPE) : 1:50-1:100<br>Western Blot : 1:500-1:1000 |
| **Limitations** | This PFKM antibody is available for research use only. |



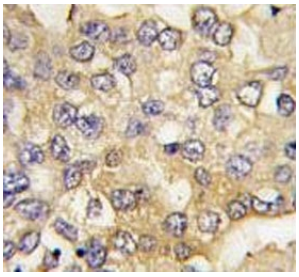

Western blot testing of human HeLa cell lysate with PFKM antibody. Predicted molecular weight ~85 kDa.



Immunofluorescent staining of human HeLa cells with PFKM antibody (green) and DAPI nuclear stain (blue).



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



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

## Description

Phosphofructokinase catalyzes the irreversible conversion of fructose 6 phosphate to fructose 1,6 bisphosphate. Mammalian PFK is a complex isozyme consisting of 3 subunits: muscle (M), liver (L), and platelet (P). Only M type PFK isozyme is expressed in mature muscle, while erythrocytes contain both L and M subunits. Defects in PFKM are the cause of glycogen storage disease type 7 (GSD7), also known as Tarui disease.

## Application Notes

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

## Immunogen

A portion of amino acids 746-776 from the human protein was used as the immunogen for the PFKM antibody.

## Storage

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