

For Research Use Only

# GFPT2 Recombinant monoclonal antibody

Catalog Number:86609-3-RR



## Basic Information

<b>Catalog Number:</b> 86609-3-RR	<b>GenBank Accession Number:</b> BC000012	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 9945	<b>CloneNo.:</b> 251454E5
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> O94808	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:50-1:500
<b>Immunogen Catalog Number:</b> AG7275	<b>Full Name:</b> glutamine-fructose-6-phosphate transaminase 2	
	<b>Calculated MW:</b> 77 kDa	
	<b>Observed MW:</b> 75-77 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> NIH/3T3 cells, A375 cells <b>IF/ICC :</b> NIH/3T3 cells, A375 cells

## Background Information

GFPT2 (Glutamine-fructose-6-phosphate transaminase 2) is a rate-limiting enzyme in hexosamine biosynthesis involved in the occurrence and progress of many cancers (PMID: 35330716, 14764791). GFPT2 plays an important role in the metabolic activity of cells, especially in their glucose metabolism. GFPT2 expression was highly correlated with EMT-related factors (PMID: 37395335). High GFPT2 expression is associated with poor prognosis in various tumors, including lung adenocarcinoma, colorectal cancer, leiomyosarcoma, and serous ovarian cancer.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

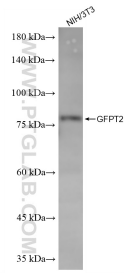
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

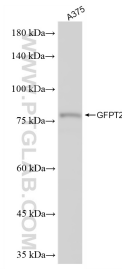
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

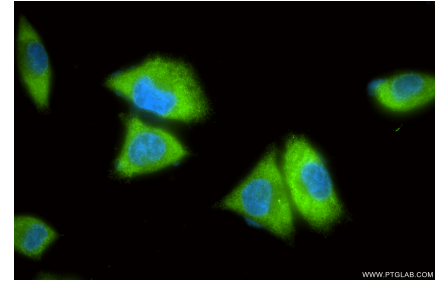
## Selected Validation Data



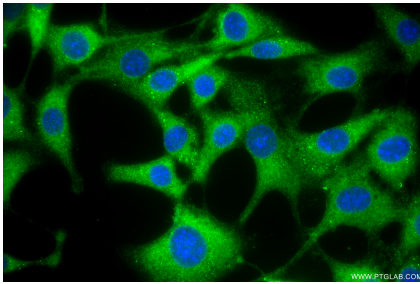
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 86609-3-RR (GFPT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



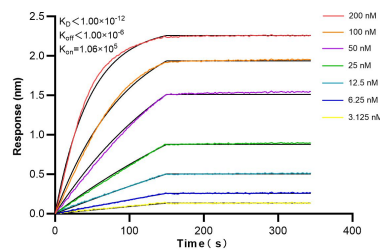
A375 cells were subjected to SDS PAGE followed by western blot with 86609-3-RR (GFPT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A375 cells using GFPT2 antibody (86609-3-RR, Clone: 251454E5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using GFPT2 antibody (86609-3-RR, Clone: 251454E5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 86609-3-RR against Human GFPT2 were performed. The affinity constant is below 1 pM.