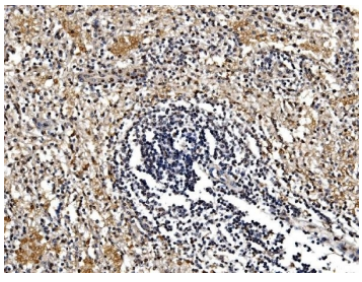
GFPT1 Antibody / GFAT (RQ6874)

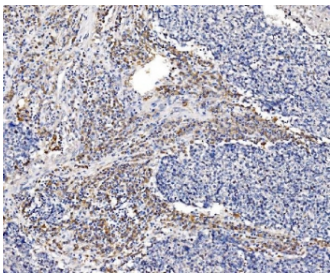
Catalog No.	Formulation	Size
RQ6874	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

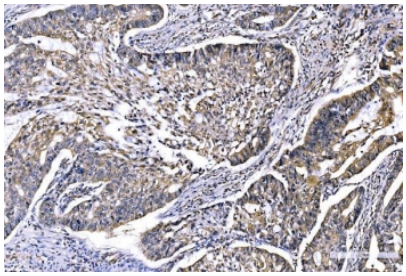
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q06210
Localization	Cytoplasmic, extracellular
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This GFPT1 antibody is available for research use only.



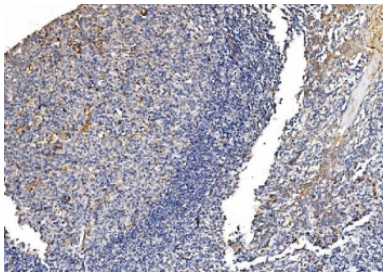
IHC staining of FFPE human splenic rupture tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



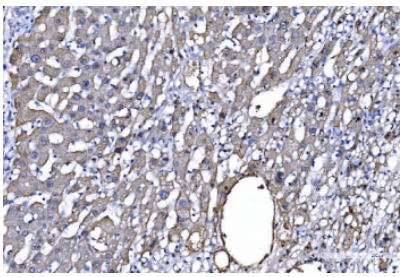
IHC staining of FFPE human lung cancer tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



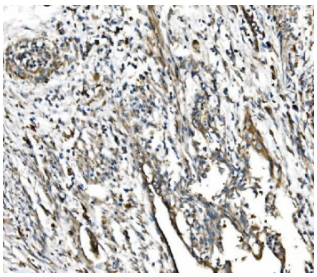
IHC staining of FFPE human colon adenocarcinoma tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



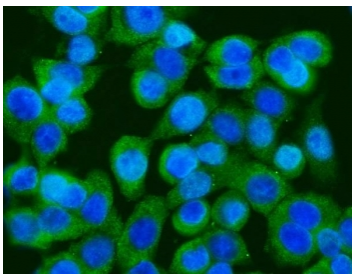
IHC staining of FFPE human tonsil tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



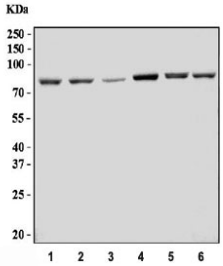
IHC staining of FFPE human liver cancer tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



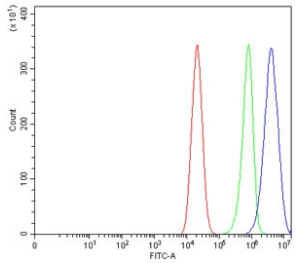
IHC staining of FFPE human cervical cancer tissue with GFPT1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



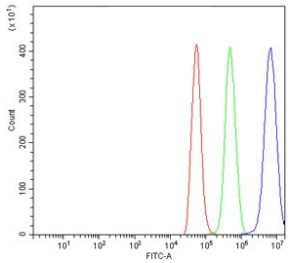
Immunofluorescent staining of FFPE human Caco-2 cells with GFPT1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HepG2, 2) HeLa, 3) 293T, 4) MCF7, 5) Caco-2 and 6) HEL cell lysate with GFPT1 antibody. Predicted molecular weight ~79 kDa.



Flow cytometry testing of human Caco-2 cells with GFPT1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GFPT1 antibody.



Flow cytometry testing of rat NRK cells with GFPT1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GFPT1 antibody.

Description

Glucosamine--fructose-6-phosphate aminotransferase isomerizing 1 is an enzyme that in humans is encoded by the GFPT1 gene. This gene encodes the first and rate-limiting enzyme of the hexosamine pathway and controls the flux of glucose into the hexosamine pathway. The product of this gene catalyzes the formation of glucosamine 6-phosphate.

Application Notes

Optimal dilution of the GFPT1 antibody should be determined by the researcher.

Immunogen

Amino acids RDHTYAKCQNALQQVVAR from the human protein were used as the immunogen for the GFPT1 antibody.

Storage

After reconstitution, the GFPT1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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