

Rabbit anti-Human, Rat GFPT1 Polyclonal Antibody | anti-GFPT1 antibody

Anti-GFPT1 Antibody Picoband

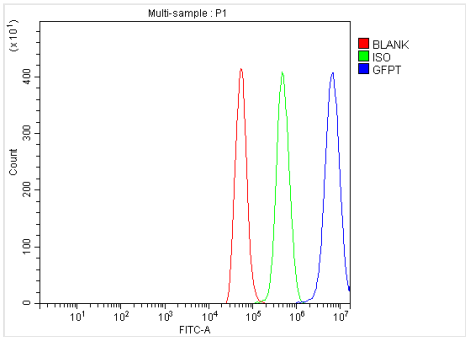
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19514	Rabbit	Human, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

GFPT1; Polyclonal Antibody; Anti-GFPT1 Antibody Picoband; anti-GFPT1 antibody

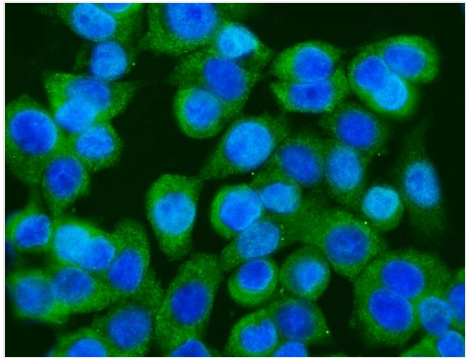
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-GFPT1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human, Rat Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human GFPT1 (RDHTYAKCQNALQQVVAR).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



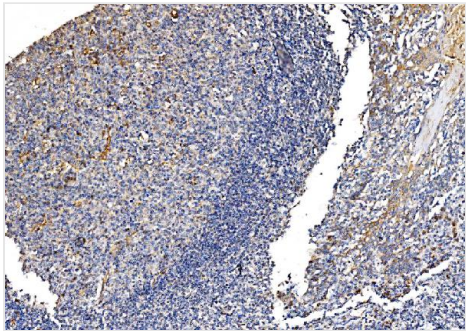
FCM (Flow Cytometry)

Figure 10. Flow Cytometry analysis of NRK cells using anti-GFPT1 antibody (AAA19514).Overlay histogram showing NRK cells stained with AAA19514 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GFPT1 Antibody (AAA19514, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



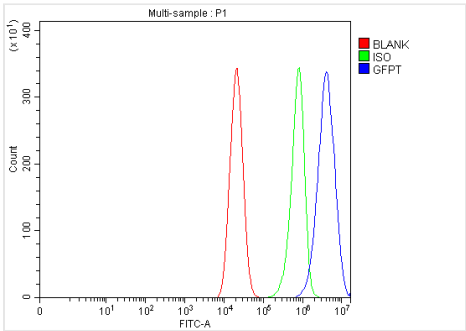
IF (Immunofluorescence)

Figure 8. IF analysis of GFPT1 using anti-GFPT1 antibody (AAA19514).GFPT1 was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-GFPT1 Antibody (AAA19514) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



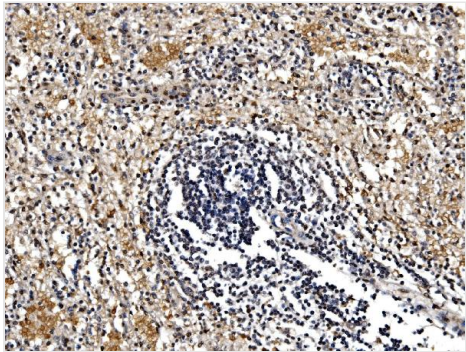
IHC (Immunohistochemistry)

Figure 6. IHC analysis of GFPT1 using anti-GFPT1 antibody (AAA19514).GFPT1 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GFPT1 Antibody (AAA19514) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



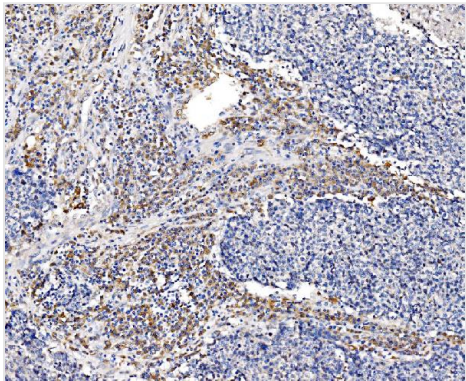
FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of Caco-2 cells using anti-GFPT1 antibody (AAA19514).Overlay histogram showing Caco-2 cells stained with AAA19514 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GFPT1 Antibody (AAA19514, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of GFPT1 using anti-GFPT1 antibody (AAA19514).GFPT1 was detected in a paraffin-embedded section of human lienal rupture tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GFPT1 Antibody (AAA19514) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of GFPT1 using anti-GFPT1 antibody (AAA19514).GFPT1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GFPT1 Antibody (AAA19514) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-GFPT1 antibody	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.
Product Categories/Family for anti-GFPT1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	30923274
NCBI GeneID	2673
UniProt Accession #	Q06210; Q53QE6; Q9BXF8
Molecular Weight	699
NCBI Official Full Name	Glutamine--fructose-6-phosphate aminotransferase
NCBI Official Synonym Full Names	glutamine--fructose-6-phosphate transaminase 1
NCBI Official Symbol	GFPT1
NCBI Official Synonym Symbols	GFA; GFAT; GFPT; MSLG; GFAT1; CMSTA1; GFAT 1; GFAT1m; GFPT1L
NCBI Protein Information	glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1; glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1; hexosephosphate aminotransferase 1; D-fructose-6-phosphate amidotransferase 1; glutamine:fructose-6-phosphate amidotransfer
UniProt Protein Name	Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1
UniProt Gene Name	GFPT1
UniProt Synonym Gene Names	GFAT; GFPT; GFAT 1; GFAT1
UniProt Entry Name	GFPT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/gfpt1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19514>