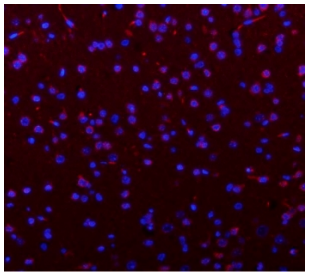
Phosphoglucomutase 3 Antibody / PGM3 (RQ8787)

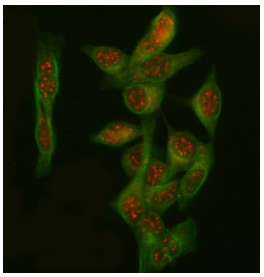
Catalog No.	Formulation	Size
RQ8787	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

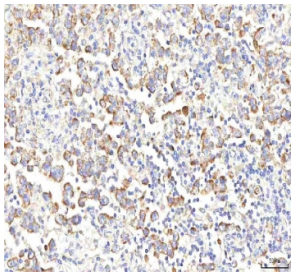
Availability	1-3 days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O95394
Localization	Nuclear, cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This Phosphoglucomutase 3 antibody is available for research use only.



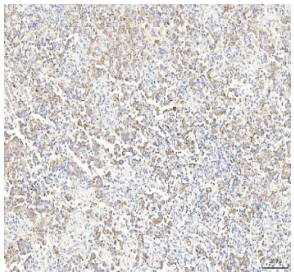
Immunofluorescent staining of FFPE rat brain tissue with Phosphoglucomutase 3 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Immunofluorescent staining of FFPE human HeLa cells with Phosphoglucomutase 3 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human testicular seminoma tissue with Phosphoglucomutase 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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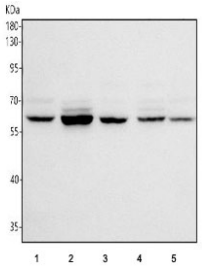
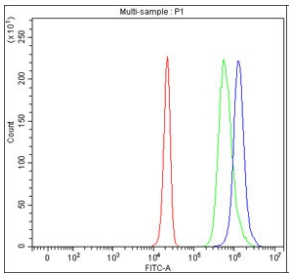


Western blot testing of 1) human A549, 2) human HepG2, 3) human Jurkat, 4) human K562 and 5) mouse brain tissue lysate with Phosphoglucomutase 3 antibody. Predicted molecular weight: 60-63 kDa (multiple isoforms).



Description

Phosphoacetylglucosamine mutase is an enzyme that in humans is encoded by the PGM3 gene. This gene encodes a member of the phosphohexose mutase family. The encoded protein mediates both glycogen formation and utilization by catalyzing the interconversion of glucose-1-phosphate and glucose-6-phosphate. A non-synonymous single nucleotide polymorphism in this gene may play a role in resistance to diabetic nephropathy and neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Application Notes

Optimal dilution of the Phosphoglucomutase 3 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids K112-A531) was used as the immunogen for the Phosphoglucomutase 3 antibody.

Storage

After reconstitution, the Phosphoglucomutase 3 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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