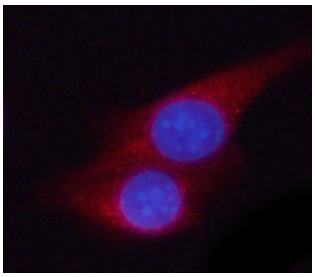
Phosphoglycerate kinase 2 Antibody / PGK2 (RQ8035)

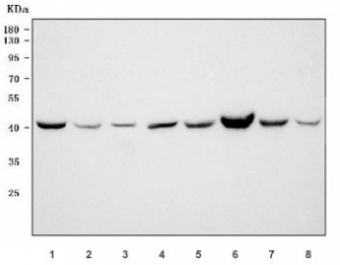
Catalog No.	Formulation	Size
RQ8035	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

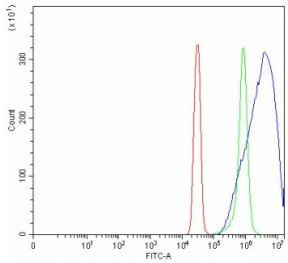
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P07205
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This Phosphoglycerate kinase 2 antibody is available for research use only.



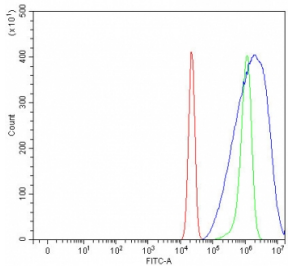
Immunofluorescent staining of FFPE mouse RM1 cells with Phosphoglycerate kinase 2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) rat testis, 4) rat brain, 5) rat heart, 6) mouse testis, 7) mouse brain and 8) mouse heart tissue lysate with Phosphoglycerate kinase 2 antibody. Predicted molecular weight ~45 kDa.



Flow cytometry testing of fixed and permeabilized human SiHa cells with Phosphoglycerate kinase 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Phosphoglycerate kinase 2 antibody.



Flow cytometry testing of fixed and permeabilized human U-2 OS cells with Phosphoglycerate kinase 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Phosphoglycerate kinase 2 antibody.

Description

This gene is intronless, arose via retrotransposition of the phosphoglycerate kinase 1 gene, and is expressed specifically in the testis. Initially assumed to be a pseudogene, the encoded protein is actually a functional phosphoglycerate kinase that catalyzes the reversible conversion of 1,3-bisphosphoglycerate to 3-phosphoglycerate, during the Embden-Meyerhof-Parnas pathway of glycolysis, in the later stages of spermatogenesis.

Application Notes

Optimal dilution of the Phosphoglycerate kinase 2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids K267-K350) was used as the immunogen for the Phosphoglycerate kinase 2 antibody.

Storage

After reconstitution, the Phosphoglycerate kinase 2 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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