

Product Name: KD-Validated Phosphoglucomutase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01315

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 61.4kDa

Antigen Information

Gene Name	PGM1
Alternative Names	PGM1; Phosphoglucomutase 1; Glucose Phosphomutase 1; Phosphoglucomutase-1; EC 5.4.2.2; PGM 1; EC 5.4.2; CDG1T; GSD14
Gene ID	5236.0
SwissProt ID	P36871
Immunogen	A synthesized peptide derived from human PGM1

Background

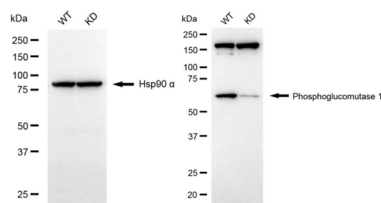
The protein encoded by this gene is an isozyme of phosphoglucomutase (PGM) and belongs to the phosphohexose mutase family. There are several PGM isozymes, which are encoded by different genes and catalyze the transfer of phosphate between

the 1 and 6 positions of glucose. In most cell types, this PGM isozyme is predominant, representing about 90% of total PGM activity. In red cells, PGM2 is a major isozyme. This gene is highly polymorphic. Mutations in this gene cause glycogen storage disease type 14. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Mar 2010]

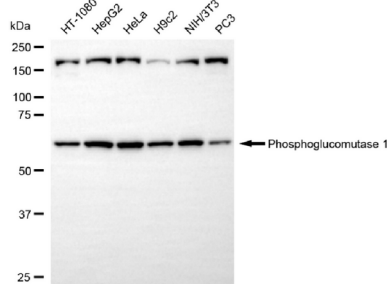
Research Area

Signal Transduction, Metabolism

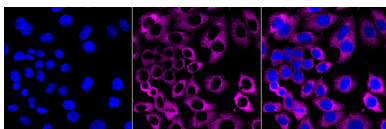
Image Data



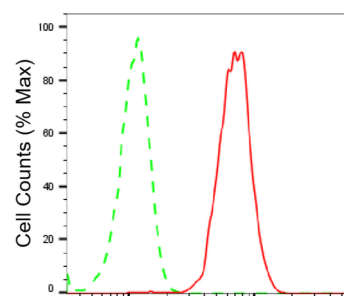
Western blotting analysis using phosphoglucomutase 1 antibody (KVA01315). Phosphoglucomutase 1 expression in wild type (WT) and phosphoglucomutase 1 (PGM1) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phosphoglucomutase 1 antibody (KVA01315, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phosphoglucomutase 1 antibody (KVA01315). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phosphoglucomutase 1 antibody (KVA01315, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Phosphoglucomutase 1 antibody (KVA01315, 1:1,000). Nuclei were stained blue with DAPI; Phosphoglucomutase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Phosphoglucomutase 1 expression in HepG2 cells using Phosphoglucomutase 1 antibody (KVA01315, 1:2,000). Green, isotype control; red, Phosphoglucomutase 1.

Phosphoglucomutase 1-Alexa Fluor® 647