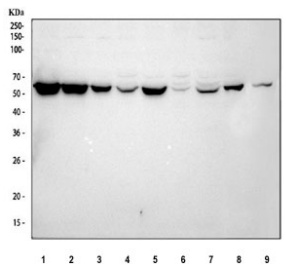
G6PD Antibody / Glucose-6-phosphate dehydrogenase (R31611)

Catalog No.	Formulation	Size
R31611	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
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	2539
Applications	Western Blot : 0.5-1ug/ml
Limitations	This G6PD antibody is available for research use only.



Western blot testing of 1) human A549, 2) human MCF7, 3) human HeLa, 4) human U-2 OS, 5) human U-251, 6) human A431, 7) human HepG2, 8) human RT4 and 9) mouse RAW264.7 cell lysate with G6PD antibody. Predicted molecular weight ~59 kDa.

Description

Glucose-6-phosphate dehydrogenase, also known as G6PDH, is an enzyme that in humans is encoded by the G6PD gene. It is mapped to Xq28. G6PD plays a key role in the production of ribose 5-phosphate and the generation of NADPH in the hexose monophosphate pathway. Because this pathway is the only NADPH-generation process in mature red cells, which lack the citric adid cycle, a genetic deficiency is often associated with adverse physiologic effects. It has been found that aldosterone decreased G6PD expression and activity, resulting in increased oxidant stress and decreased nitric oxide levels, similar to what is observed in G6PD-deficient endothelial cells.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the G6PD antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 315-515) was used as the immunogen for this G6PD antibody.

Storage

After reconstitution, the G6PD antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.