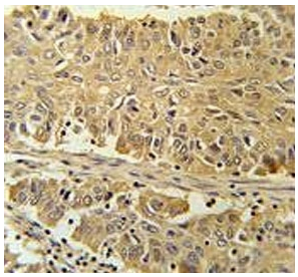
PGD Antibody / 6-Phosphogluconate Dehydrogenase (F54826)

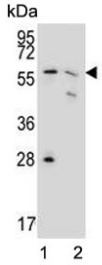
Catalog No.	Formulation	Size
F54826-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54826-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

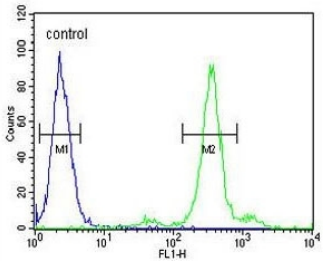
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P52209
Localization	Cytoplasmic
Applications	Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:50-1:100 Western Blot : 1:500-1:1000
Limitations	This PGD antibody is available for research use only.



IHC testing of FFPE human lung carcinoma tissue with PGD antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of human 1) HEK293 and 2) MCF7 cell lysate with PGD antibody. Predicted molecular weight ~53 kDa.



Flow cytometry testing of human HEK293 cells with PGD antibody; Blue=isotype control, Green= PGD antibody.

Description

6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies.

Application Notes

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

Immunogen

A portion of amino acids 236-265 from the human protein was used as the immunogen for the PGD antibody.

Storage

Aliquot the PGD antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.