Product Name: PGD Rabbit Polyclonal Antibody
Catalog #: APRab16027

Summary

Production Name	PGD Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PGD
Alternative Names	PGD; PGDH; 6-phosphogluconate dehydrogenase; decarboxylating
Gene ID	5226.0
SwissProt ID	P52209.The antiserum was produced against synthesized peptide derived from human PGD. AA range:71-120

Application

Dilution Ratio	IHC-p: 100-300.WB 1:500 - 1:2000. ELISA: 1:5000.. IF 1:50-200
Molecular Weight	40kD

Background

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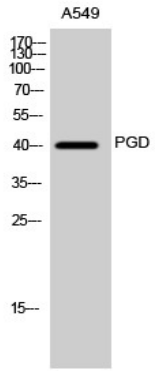
6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015],catalytic activity:6-phospho-D-gluconate + NADP(+) = D-ribulose 5-phosphate + CO(2) + NADPH.,pathway:Carbohydrate degradation; pentose phosphate pathway; D-ribulose 5-phosphate from D-glucose 6-phosphate (oxidative stage): step 3/3.,similarity:Belongs to the 6-phosphogluconate dehydrogenase family.,subunit:Homodimer.,

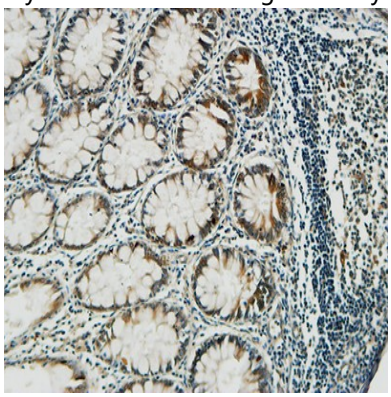
Research Area

Pentose phosphate pathway;Glutathione metabolism;

Image Data



Western Blot analysis of A549 cells using PGD Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.

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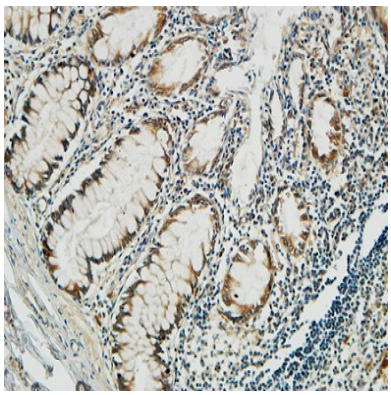

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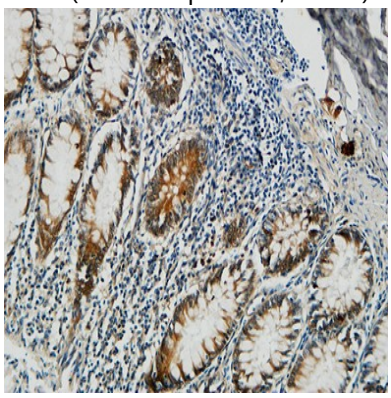

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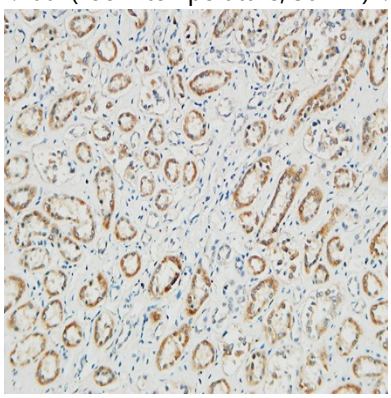

Immunohistochemical analysis of paraffin-embedded Human Right kidney. 1, Antibody was diluted at 1:400（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.

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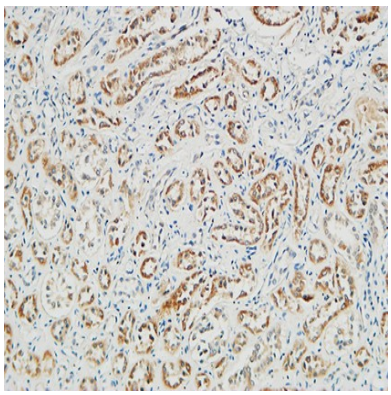

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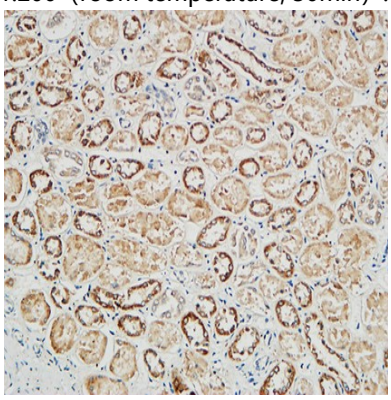

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Note

For research use only.