

## **PGD Polyclonal Antibody**

Catalog No: YT3688

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: PGD

**Fields:** >>Pentose phosphate pathway;>>Glutathione metabolism;>>Metabolic

pathways;>>Carbon metabolism

Gene Name: PGD

**Protein Name:** 6-phosphogluconate dehydrogenase decarboxylating

P52209

Q9DCD0

Human Gene Id: 5226

**Human Swiss Prot** 

No:

Mouse Gene Id: 110208

**Mouse Swiss Prot** 

No:

**Rat Gene Id:** 1.0036e+008

Rat Swiss Prot No: P85968

**Immunogen :** The antiserum was produced against synthesized peptide derived from human

PGD. AA range:71-120

**Specificity:** PGD Polyclonal Antibody detects endogenous levels of PGD protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** IHC: 100-300.WB 1:500 - 1:2000. ELISA: 1:5000.. IF 1:50-200

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**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 40kD

**Cell Pathway:** Pentose phosphate pathway; Glutathione metabolism;

**Background:** 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],

**Function:** 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.,

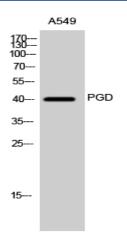
Cytoplasm.

Subcellular

Location:

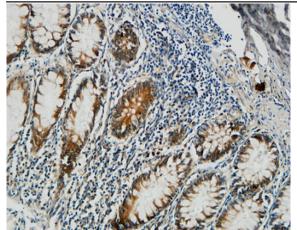
**Expression :** Heart, Lung,

## **Products Images**

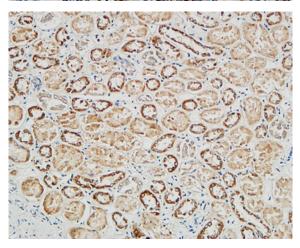


Western Blot analysis of A549 cells using PGD Polyclonal Antibody





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



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).