

# D-3-phosphoglycerate dehydrogenase Polyclonal Antibody

Catalog No: #42388

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## Description

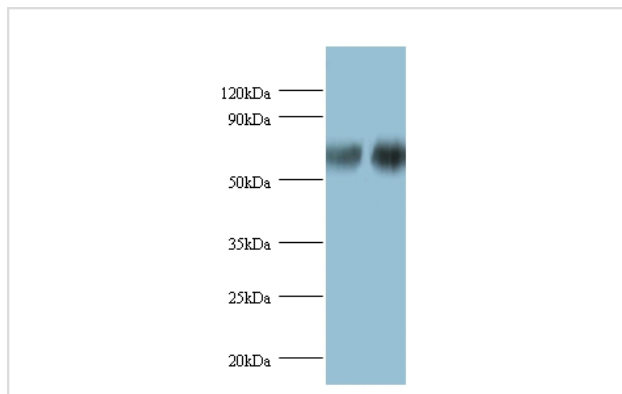
Product Name	D-3-phosphoglycerate dehydrogenase Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total D-3-phosphoglycerate dehydrogenase polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human D-3-phosphoglycerate dehydrogenase protein
Target Name	D-3-phosphoglycerate dehydrogenase
Other Names	3-PGDH??PGDH3??PHGDH
Accession No.	Swiss-Prot#: O43175
Uniprot	O43175
GenID	26227;
Calculated MW	59kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

## Application Details

Western blotting: □1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

## Images



All lanes : D-3-phosphoglycerate dehydrogenase antibody at 2ug/ml

Lane 1 : EC109 whole cell lysate

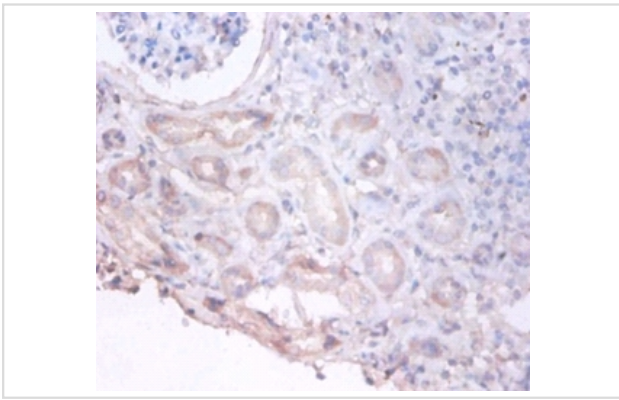
Lane 2 : 293T whole cell lysate

Secondary

Goat polyclonal to Rabbit IgG at 1/15000 dilution

Predicted band size : 59 kDa

Observed band size : 59 kDa



Immunohistochemical analysis of paraffin-embedded humankidney using #42388 at dilution of 1:100.

## Background

PHGDH or 3-phosphoglycerate dehydrogenase is an enzyme belonging to the D-isomer specific 2-hydroxyacid dehydrogenase family. It catalysis the reaction  $3\text{-phosphoglycerate} + \text{NAD}^+ = 3\text{-phosphonoxypruvate} + \text{NADH}$  during L-serine biosynthesis. Defects in PHGDH are the cause of phosphoglycerate dehydrogenase deficiency (PHGDH deficiency). It is characterized by congenital microcephaly, psychomotor retardation and seizures.

## References

[1] "Nucleotide sequence and differential expression of the human 3-phosphoglycerate dehydrogenase gene." Cho H.M., Jun D.Y., Bae M.A., Ahn J.D., Kim Y.H. Gene 245:193-201(2000) [2] "Molecular characterization of 3-phosphoglycerate dehyd

Note: This product is for in vitro research use only