

For Research Use Only

# H6PD Polyclonal antibody

Catalog Number: 15255-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

15255-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7109

### GenBank Accession Number:

BC081559

### GeneID (NCBI):

9563

### UNIPROT ID:

O95479

### Full Name:

hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)

### Calculated MW:

89 kDa

### Observed MW:

89-95 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HepG2 cells, mouse liver tissue, HeLa cells

**IP** : HepG2 cells,

**IHC** : human hepatocirrhosis tissue, human liver cancer tissue

## Background Information

Hexose-6-phosphate dehydrogenase (H6PD) is also named as GDH,6PGL. It is the main NADPH generating enzyme in the lumen of the endoplasmic reticulum. H6PD is regarded as an ancillary enzyme in prerenal glucocorticoid activation and probably acts as a nutrient sensor and as a prosurvival factor (PMID:21620971). H6PD is a glycoprotein and has been shown tissue differences in glycosylation status might explain both the difference in migration on SDS-PAGE gels as well as in activity. Defects in H6PD are a cause of cortisone reductase deficiency (CRD). This antibody is specific to H6PD.

## Notable Publications

| Author             | Pubmed ID | Journal           | Application |
|--------------------|-----------|-------------------|-------------|
| Xixi Guo           | 31480692  | Biomolecules      | WB          |
| Alzbeta Hulikova   | 35357563  | Basic Res Cardiol | IF          |
| Eva-Maria Patronas | 37867937  | iScience          | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

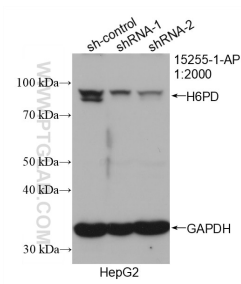
For technical support and original validation data for this product please contact:

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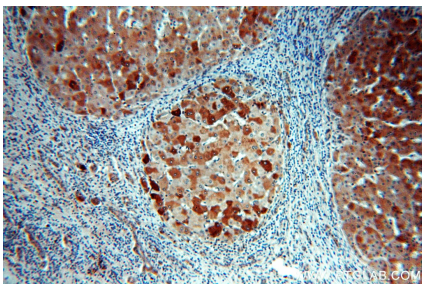
E: proteintech@ptglab.com  
W: ptglab.com

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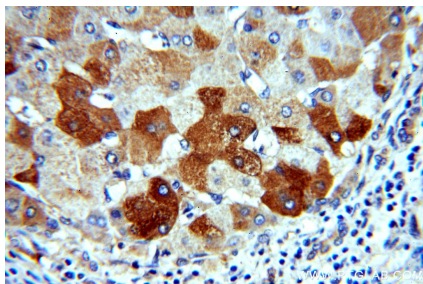
Selected Validation Data



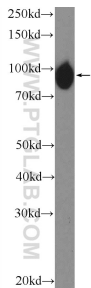
WB result of H6PD antibody (15255-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-H6PD transfected HepG2 cells.



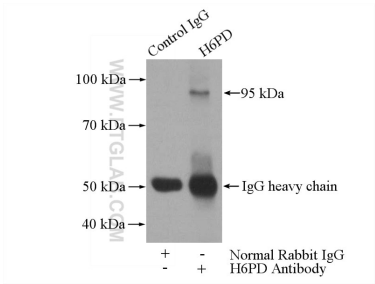
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 15255-1-AP (H6PD antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis using 15255-1-AP (H6PD antibody) at dilution of 1:100 (under 40x lens).



HepG2 cells were subjected to SDS PAGE followed by western blot with 15255-1-AP (H6PD Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-H6PD (IP:15255-1-AP, 4ug; Detection:15255-1-AP 1:1000) with HepG2 cells lysate 1600ug.