

For Research Use Only

# PTGDS Polyclonal antibody

Catalog Number: 10754-2-AP

10 Publications



## Basic Information

### Catalog Number:

10754-2-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1163

### GenBank Accession Number:

BC005939

### GeneID (NCBI):

5730

### UNIPROT ID:

P41222

### Full Name:

prostaglandin D2 synthase 21kDa (brain)

### Calculated MW:

21 kDa

### Observed MW:

28 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:3000

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

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, pig

**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** : HeLa cells, human kidney tissue, human plasma, human heart tissue, human colon tissue, PC-3 cells, human urine tissue

**IP** : mouse brain tissue,

**IHC** : mouse brain tissue, human lung cancer tissue

## Background Information

Glycoprotein prostaglandin D2 synthase (PTGDS), also known as L-PGDS, PGDS, and LPGDS, is a member of the lipocalin superfamily and plays dual roles in prostaglandins metabolism and lipid transport (PMID: 34743203). PTGD2 functions as a neuromodulator as well as a trophic factor in the central nervous system. PTGD2 is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. PTGDS is abundantly expressed in the brain and heart and has also been found in testis, prostate, kidney, spleen and leukocytes. It can be found as a collection of monomeric glycoforms with molecular weights in the 27-34 kDa range (PMID: 32430846).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ruoyao Zou	32617019	Cancer Manag Res	IHC
Yongjie Xu	34336820	Front Cell Dev Biol	WB
Ailan Yin	33550900	Cell Cycle	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

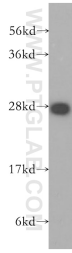
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

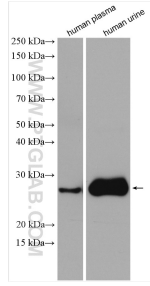
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

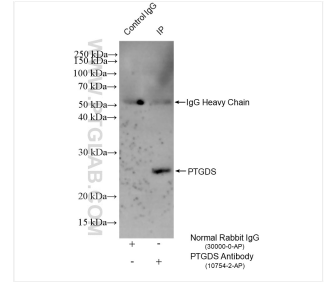
## Selected Validation Data



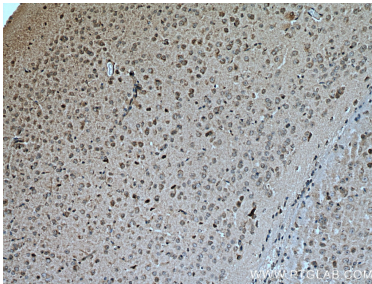
HeLa cells were subjected to SDS PAGE followed by western blot with 10754-2-AP (PTGDS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10754-2-AP (PTGDS antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-PTGDS (IP:10754-2-AP, 4ug;  
Detection:10754-2-AP 1:600) with mouse brain  
tissue lysate 1840 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10754-2-AP (PTGDS antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).