

For Research Use Only

PTGDS Polyclonal antibody

Catalog Number: 10754-2-AP

10 Publications



Basic Information

Catalog Number:

10754-2-AP

Concentration:

500 ug/ml

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

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

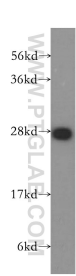
T: 4006900926

E: Proteintech-CN@ptglab.com

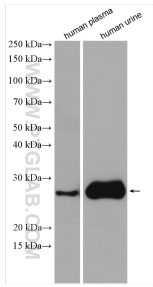
W: ptgcn.com

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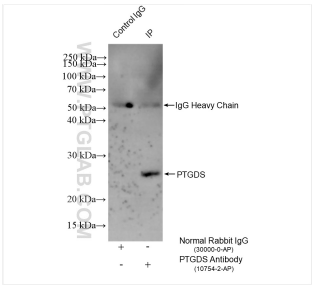
Selected Validation Data



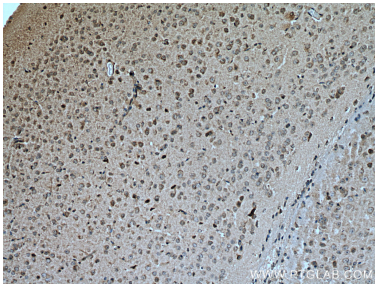
HeLa cells were subjected to SDS PAGE followed by western blot with 10754-2-AP (PTGDS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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).