

For Research Use Only

HPGDS Polyclonal antibody

Catalog Number: 22522-1-AP

3 Publications



Basic Information

Catalog Number:

22522-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18290

GenBank Accession Number:

BC020734

GeneID (NCBI):

27306

UNIPROT ID:

O60760

Full Name:

prostaglandin D2 synthase, hematopoietic

Calculated MW:

199 aa, 23 kDa

Observed MW:

26-30 kDa

Purification Method:

Antigen Affinity purified

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : rat spleen tissue, mouse small intestine tissue

IHC : human placenta tissue, human gliomas tissue

Background Information

Hematopoietic prostaglandin D synthase (HPGDS) is expressed in human Th2 lymphocytes, antigen-presenting cells, mast cells and microglia. HPGDS converts PGH₂ into PGD₂, a mediator thought to play a pivotal role in airway allergy and inflammatory processes (PMID: 16624958). HPGDS deficiency is a critical factor that impedes cutaneous wound healing in diabetes. Overexpressing Hpgds in ADSCs could be an effective way to accelerate DW healing by alleviating inflammatory cells recruitment and increasing M2 polarization in the proliferation phase (PMID: 35922870). HPGDS is a cytosolic homodimer of 26 kDa subunits which reveal a well-defined active site, enabling a structure-based design of inhibitors (PMID: 24900177).

Notable Publications

Author	Pubmed ID	Journal	Application
Yujing Guo	36432203	Molecules	WB
Zhen Xiong	35320705	Immunity	IF
Yi Huang	29531021	EMBO Mol Med	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

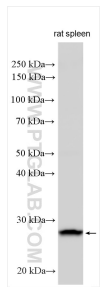
For technical support and original validation data for this product please contact:

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.

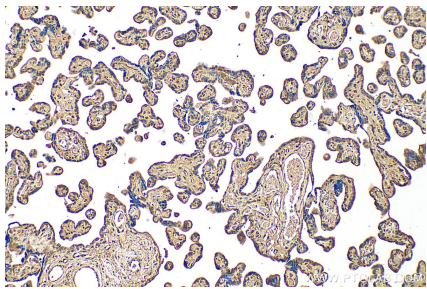
Selected Validation Data



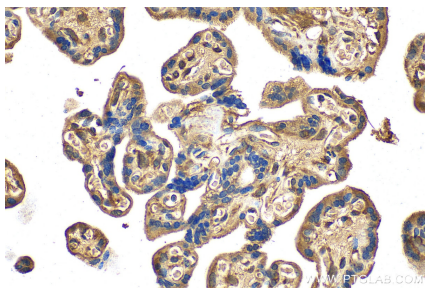
Various lysates were subjected to SDS PAGE followed by western blot with 22522-1-AP (HPGDS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



mouse small intestine tissue were subjected to SDS PAGE followed by western blot with 22522-1-AP (HPGDS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 22522-1-AP (HPGDS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 22522-1-AP (HPGDS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).