

For Research Use Only

HPGDS Polyclonal antibody

Catalog Number: 22522-1-AP **3 Publications**



Basic Information

Catalog Number: 22522-1-AP	GeneBank Accession Number: BC020734	Purification Method: Antigen Affinity purified
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 27306	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Source: Rabbit	Full Name: prostaglandin D2 synthase, hematopoietic	
Isotype: IgG	Calculated MW: 199 aa, 23 kDa	
Immunogen Catalog Number: AG18290	Observed MW: 26-30 kDa	

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IF, WB

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

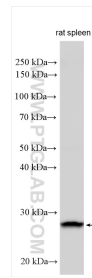
For technical support and original validation data for this product please contact:

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

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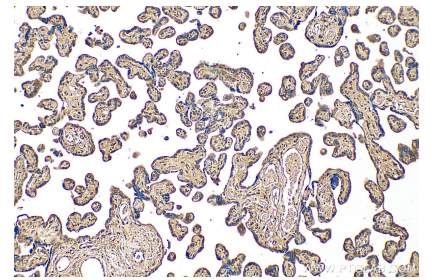
Selected Validation Data



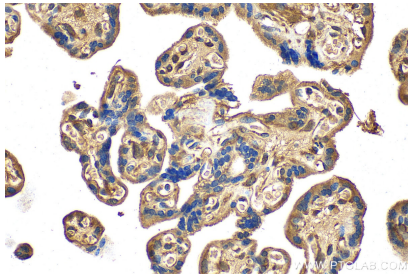
Various lysates were subjected to SDS PAGE followed by western blot with 22522-1-AP (HPGDS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).