

For Research Use Only

GPR81 Polyclonal antibody

Catalog Number: 20146-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

20146-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13682

GenBank Accession Number:

BC066881

GeneID (NCBI):

27198

UNIPROT ID:

Q9BXC0

Full Name:

G protein-coupled receptor 81

Calculated MW:

346 aa, 39 kDa

Observed MW:

39 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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 : mouse kidney tissue, mouse liver tissue

IHC : mouse pancreas tissue, human colon tissue, human pancreas tissue

Background Information

GPR81 (G protein-coupled receptor 81) is one of a large family of GPRs with low affinity for hydroxy-carboxylic acid structure ligands (PMID: 24657625). Lactate functions as a signaling molecule by serving as an agonist for the GPR81, involving both autocrine and paracrine mechanisms (PMID: 31836453). Moreover, A higher molecular mass band (60 kDa) is present in the brain and adipose tissue. This band is also strong in the transfected HeLa cells but weak in native HeLa cells and is therefore probably a form of GPR81, possibly a glycosylated form of the receptor (PMID: 23696276).

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Li	34040073	Sci Rep	WB
Man Luo	36531060	Front Oncol	WB
Haiqin Wu	38937989	Adv Sci (Weinh)	

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

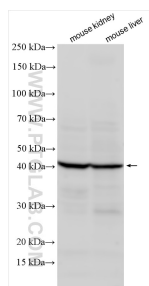
For technical support and original validation data for this product please contact:

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

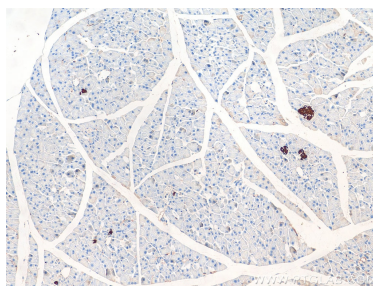
E: proteintech@ptglab.com
W: ptglab.com

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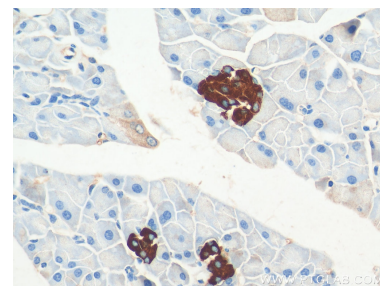
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20146-1-AP (GPR81 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 20146-1-AP (GPR81 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 20146-1-AP (GPR81 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).