

For Research Use Only

GPR81 Polyclonal antibody

Catalog Number: 20146-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 20146-1-AP	GenBank Accession Number: BC066881	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 27198	Recommended Dilutions: WB 1:500-1:1000 IHC 1:250-1:1000
Source: Rabbit	Full Name: G protein-coupled receptor 81	
Isotype: IgG	Calculated MW: 346 aa, 39 kDa	
Immunogen Catalog Number: AG13682	Observed MW: 39 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB: mouse kidney tissue, mouse liver tissue
Species Specificity: human, mouse	IHC: mouse pancreas tissue, human colon tissue, human pancreas tissue
Cited Species: rat, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Jialun Yang	37634815	Life Sci	WB

Storage

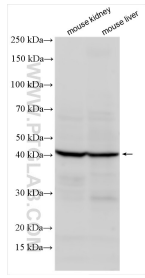
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

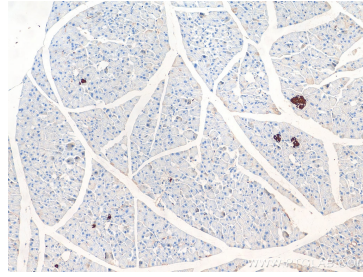
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

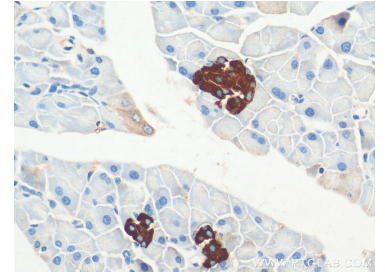
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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).