

For Research Use Only

# PTPIP51 Polyclonal antibody, PBS Only

Catalog Number: 20641-1-PBS

Featured Product



## Basic Information

Catalog Number:

20641-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14708

GenBank Accession Number:

BC008970

GeneID (NCBI):

55177

UNIPROT ID:

Q96TC7

Full Name:

family with sequence similarity 82, member A2

Calculated MW:

470 aa, 52 kDa

Observed MW:

52-60 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human

## Background Information

Protein tyrosine phosphatase-interacting protein 51 (PTPIP51), also known as RMDN3, is a mitochondrial membrane-anchored protein that interacts with ER membrane-bound VAPB. The VAPB-PTPIP51 interaction impacts on intracellular Ca<sup>2+</sup> handling (PMID: 22131369, 28345618). PTPIP51 participates in multiple cellular processes, and dysfunction of PTPIP51 is implicated in diseases such as cancer and neurodegenerative disorders (PMID: 28345618). The known initiation sites in the Ptpip51 gene would lead to molecular protein masses of 52, 38 and 30 kDa (PMID: 18854601, 19844996).

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS Only

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

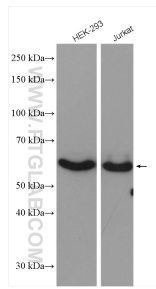
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

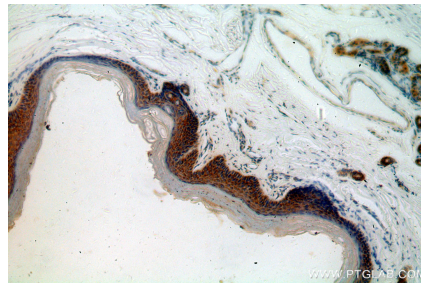
W: [ptgcn.com](http://ptgcn.com)

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

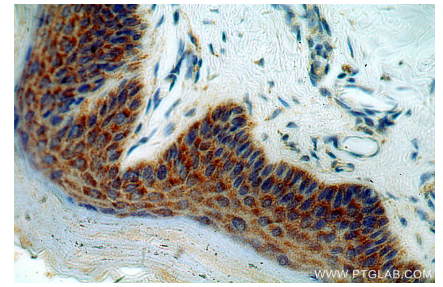
## Selected Validation Data



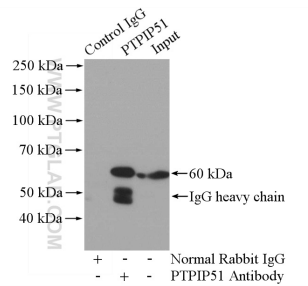
Various lysates were subjected to SDS PAGE followed by western blot with 20641-1-AP (PTPIP51 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 20641-1-PBS in a different storage buffer formulation.



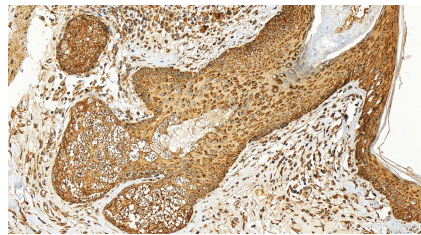
Immunohistochemical analysis of paraffin-embedded human skin using 20641-1-AP (PTPIP51 antibody) at dilution of 1:100 (under 10x lens). This data was developed using the same antibody clone with 20641-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human skin using 20641-1-AP (PTPIP51 antibody) at dilution of 1:100 (under 40x lens). This data was developed using the same antibody clone with 20641-1-PBS in a different storage buffer formulation.



IP result of anti-PTPIP51 (IP:20641-1-AP, 4ug; Detection:20641-1-AP 1:1000) with HEK-293 cells lysate 1100ug. This data was developed using the same antibody clone with 20641-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human paracancerous of skin cancer slide using 20641-1-AP (PTPIP51 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 20641-1-PBS in a different storage buffer formulation.