

# Connexin-32 Polyclonal antibody

Catalog Number: 10450-1-AP

7 Publications

## Basic Information

## Catalog Number:

10450-1-AP

## Size:

133 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG0659

## GenBank Accession Number:

BC002805

## GeneID (NCBI):

2705

## UNIPROT ID:

P08034

## Full Name:

gap junction protein, beta 1, 32kDa

## Calculated MW:

32 kDa

## Observed MW:

32 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

WB, IF, IHC

## Species Specificity:

human, mouse

## 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 : mouse brain tissue, A375 cells, human liver tissue, mouse skin tissue

IP : mouse brain tissue,

IHC : human colon cancer tissue,

## Background Information

Connexin-32 (Cx32), also known as Gap junction beta 1 protein (GJB1), belongs to the connexin family. Connexins are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. Connexin-32 is the major gap junction protein of liver, and the expression is also found in brain and other organs. It is involved in tumorigenesis and liver regeneration. Connexin-32 plays an important role in peripheral nerve. Defects in Connexin-32 are the cause of Charcot-Marie-Tooth disease X-linked type 1 (CMTX1), an inherited peripheral neuropathy. (PMID: 8266101; 8613761; 8608591; 19265674)

## Notable Publications

Author	Pubmed ID	Journal	Application
Nakase Taizen T	19794823	J Biomed Biotechnol	IHC
Wen-Qun Zhong	25270527	Histopathology	IHC, IF
Yi Sha S	23162640	Oncol Lett	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

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

T: 4006900926

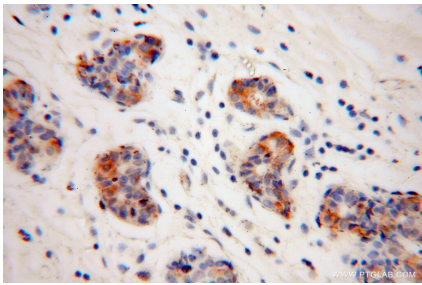
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

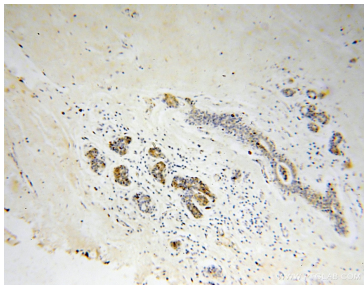
Selected Validation Data



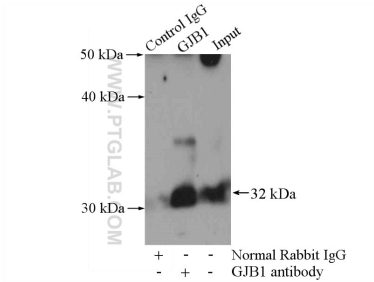
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10450-1-AP (GJB1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10450-1-AP (GJB1 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10450-1-AP (GJB1 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-Connexin-32 (IP:10450-1-AP, 4ug; Detection:10450-1-AP 1:300) with mouse brain tissue lysate 4000ug.