

For Research Use Only

# GP repeat Polyclonal antibody

Catalog Number: 24494-1-AP

20 Publications



## Basic Information

Catalog Number:

24494-1-AP

Concentration:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:200-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, ELISA

Species Specificity:

human

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 : Recombinant protein,

IHC : human cerebellum tissue,

## Background Information

The C9orf72 "GGGGCC" repeat sequence codes five repeat peptide "GA repeat; GAGAGAGAGA", "GP repeat; GPGPGPGPG", "GR repeat; GRGRGRGRG", "AP repeat; APAPAPAPA" and "PR repeat; PRPRPRPRP". It was described previously that aggregated forms of poly-GA and poly-GP proteins do not enter the separation gel (PMID: 26374446). This antibody is used to detect the GP repeated sequence. The recombinant protein 6<sup>His</sup> tag-SMARCA4 or GST tag-SMARCA4 which contains the sequence "GPGPGPGPG" were used to detect this antibody.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ian R A Mackenzie	26374446	Acta Neuropathol	WB, IHC
Janis Bennion Callister	27798094	Hum Mol Genet	WB, IF
Chen Liang	31625563	Hum Mol Genet	IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

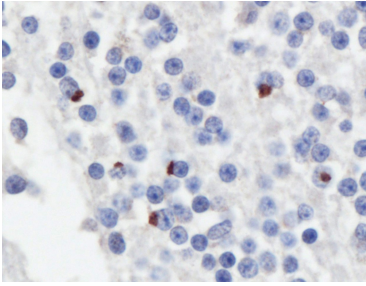
T: 4006900926

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

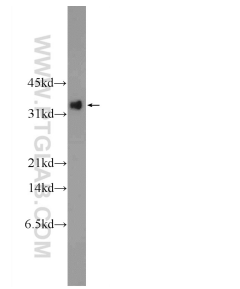
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



IHC results of GP-repeated antibody (24494-1-AP, 1:500) with human cerebellum tissue (C9ORF72 expansion carrier) by Prof. Dr. Manuela Neumann. Staining conditions: Ventana automatic staining system using Optiview DAB detection kit; pretreatment boiling for 30min in citrate buffer pH6.



Recombinant proteins of SMARCA4 which contains GP repeat sequence were subjected to SDS PAGE followed by western blot with 24494-1-AP (GP repeat Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.