**GP repeat Polyclonal ANTIBODY**

*Catalog Number: 24494-1-AP*

### Basic Information

- **Catalog Number:** 24494-1-AP
- **Size:** 43 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:**
- **GenBank Accession Number:**
- **Full Name:**
- **Calculated MW:**
- **Observed MW:**

### Applications

- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human
- **Cited Species:** human

### Notable Publications

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<th>Author</th>
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<tr>
<td>Ian R A Mackenzie</td>
<td>26374446</td>
<td>Acta Neuropathol</td>
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<td>Janis Bannion Callister</td>
<td>27798094</td>
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<td>Yvonne Davidson</td>
<td>26533031</td>
<td>Neuropathol Appl Neurobiol</td>
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### 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*His* tag-SMARCA4 or GST tag-SMARCA4 which contains the sequence "GPGPGPGPG" were used to detect this antibody.

### Storage

- **Store at:** -20ºC.
- **Stable for:** one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

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

- **T:** 1 (888) 4PTGLAB (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**

IHC results of GP-repeated antibody (24494-1-1AP, 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-repeated Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.