

## C9orf72 Polyclonal antibody

Catalog Number: 22637-1-AP

Featured Product

31 Publications

## Basic Information

<b>Catalog Number:</b> 22637-1-AP	<b>GenBank Accession Number:</b> BC020851	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 520 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 203228	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:200-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> chromosome 9 open reading frame 72	<b>for WB</b> IHC 1:500-1:2000 IF 1:10-1:100
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 481 aa, 54 kDa	
<b>Immunogen Catalog Number:</b> AG18326	<b>Observed MW:</b> 50-54 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse, Caenorhabditis elegans

**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:** C2C12 cells, transfected cells, HeLa cells, Sp2/O cells, SH-SY5Y cells, rat brain tissue, mouse testis tissue, HEK-293 cells, NIH/3T3 cells

**IP:** SH-SY5Y cells,

**IHC:** human gliomas tissue, human testis tissue

**IF:** SH-SY5Y cells,

## Background Information

C9ORF72 has a domain with polymorphic hexanucleotide repeat (GGGGCC). The C9ORF72-hexanucleotide repeat expansions have been recently identified as genetic markers in amyotrophic lateral sclerosis (ALS) and frontotemporal lobar degeneration (FTLD). The C9ORF72 repeat expansions may indicate a worse prognosis in ALS. Human C9ORF72 has some isoforms with MW 54-60 kDa and 25-30 kDa. Mouse C9orf72 has some isoforms with MW 50-60 kDa and 35 kDa. It has been reported that C9orf72 forms a complex with Cofilin and other actin binding proteins and 22637-1-AP antibody detects the complex bands around 43 and 68-72 kDa in SDS-PAGE. (PMID: 27723745)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Liu	30366907	Genes Dev	WB, IF
Carl Laflamme	31612854	Elife	WB, IF
Liyang He	36220889	Cell Death Differ	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

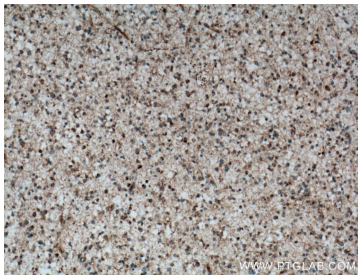
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

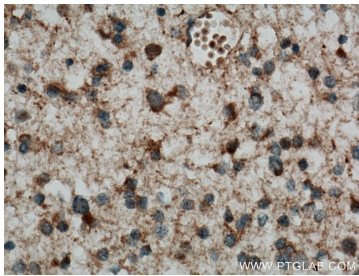
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

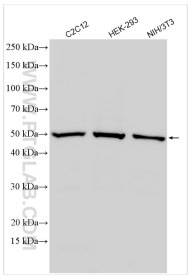
Selected Validation Data



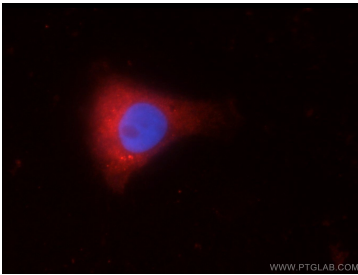
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



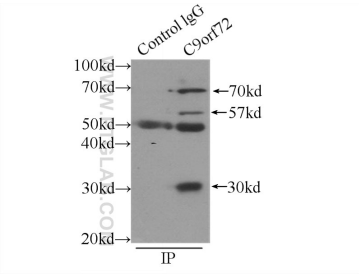
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 22637-1-AP (C9orf72 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of SH-SY5Y cells using 22637-1-AP (C9orf72 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP Result of anti-C9orf72 (IP:22637-1-AP, 3ug; Detection:22637-1-AP 1:300) with SH-SY5Y cells lysate 2000ug.