

For Research Use Only

# C9orf72 Polyclonal antibody

Catalog Number: 22637-1-AP

Featured Product

32 Publications



## Basic Information

### Catalog Number:

22637-1-AP

### Size:

150ul, Concentration: 520 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18326

### GenBank Accession Number:

BC020851

### GeneID (NCBI):

203228

### UNIPROT ID:

Q96LT7

### Full Name:

chromosome 9 open reading frame 72

### Calculated MW:

481 aa, 54 kDa

### Observed MW:

50-54 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:500-1:2000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, 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, Sp2/0 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/ICC:** 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
Liying 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

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

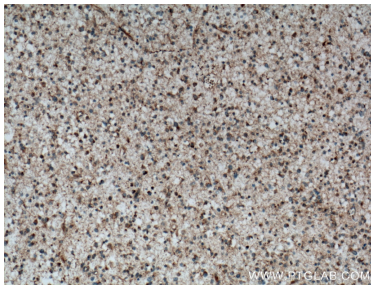
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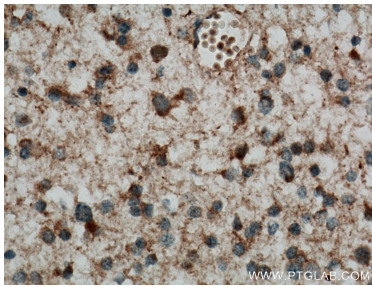
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W: [ptglab.com](http://ptglab.com)

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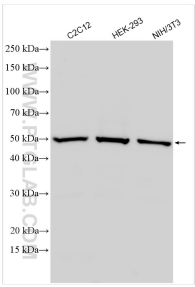
Selected Validation Data



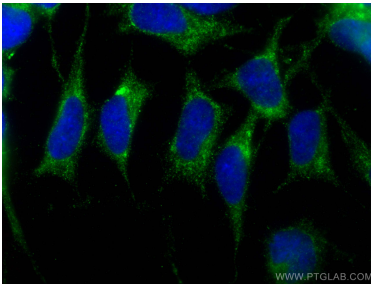
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



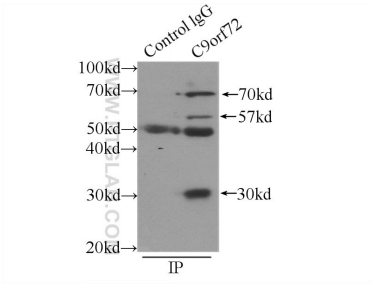
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 (-20°C Ethanol) fixed SH-SY5Y cells using C9orf72 antibody (22637-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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