

## C9orf72 Polyclonal antibody

Catalog Number: 22637-1-AP

Featured Product

36 Publications

## Basic Information

## Catalog Number:

22637-1-AP

## Concentration:

520 ug/ml

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

**IP:** SH-SY5Y cells,

**IHC:** human gliomas tissue, human testis tissue, mouse brain tissue, rat brain 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
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, pH7.3

Aliquoting is unnecessary for -20°C storage

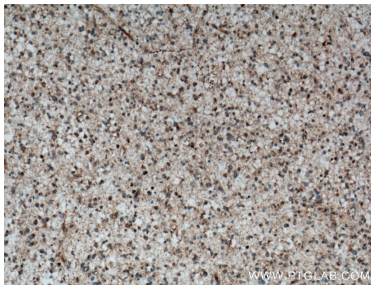
For technical support and original validation data for this product please contact:

T: 4006900926

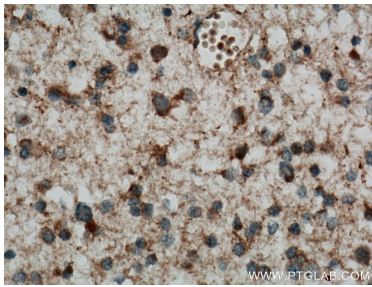
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

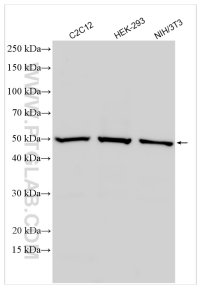
Selected Validation Data



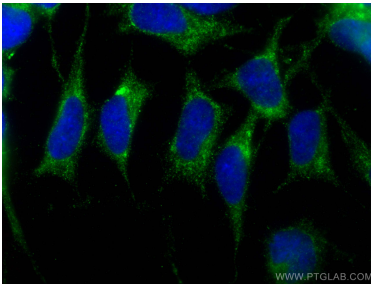
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



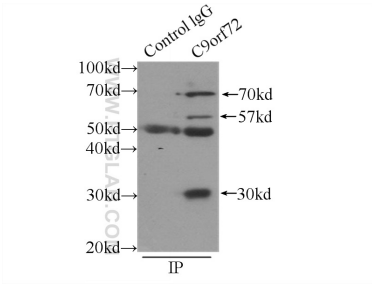
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



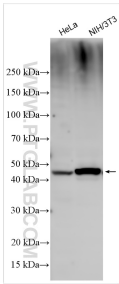
Various lysates were subjected to SDS PAGE followed by western blot with 22637-1-AP (C9orf72 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



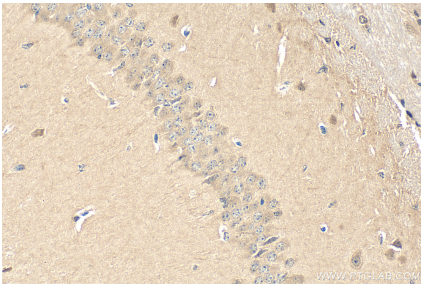
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using C9orf72 antibody (22637-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



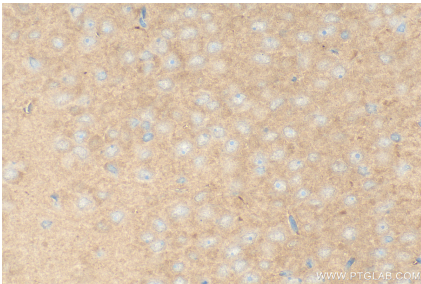
IP result of anti-C9orf72 (IP:22637-1-AP, 3ug; Detection:22637-1-AP 1:300) with SH-SY5Y cells lysate 2000ug.



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.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 22637-1-AP (C9orf72 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).