For Research Use Only

C9orf72 Polyclonal ANTIBODY

Catalog Number:22637-1-AP Featured Product 11 Publications

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Basic Information

Catalog Number:
22637-1-AP

Size:
39 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG18326

GenBank Accession Number:
BC020851

GeneID (NCBI):
203228

Full Name:
chromosome 9 open reading frame 72

Calculated MW:
481aa,54 kDa

Observed MW:
50-54 kDa,25-30 kDa, 43 kDa, 68-72 kDa

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
IHC 1:500-1:2000
IF 1:10-1:100

Applications

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

Cited Applications:
IF, IHC, WB

Species Specificity:
human,mouse,rat

Cited Species:
human, mouse

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : rat brain tissue; transfected cells, SH-SY5Y cells, HeLa cells, Sp2/0 cells, mouse testis tissue

IP : SH-SY5Y cells;

IHC : human gliomas tissue; human testis tissue

IF : SH-SY5Y cells;

Background Information

C9ORF72 has a domain whith 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. Mbuse 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
Peter M Sullivan	27193190	Acta Neuropathol Commun	WB
Aaron Burberry	27412785	Sci Transl Med	WB

Storage

Storage:
Store at -20ºC. 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

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
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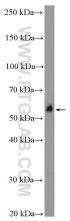
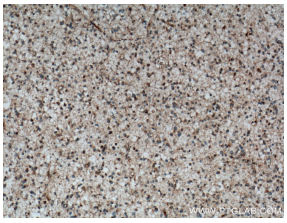
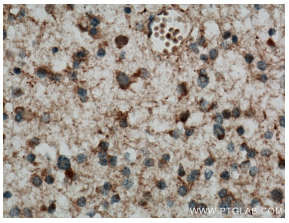
Selected Validation Data



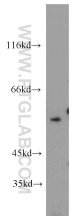
rat brain tissue were subjected to SDS PAGE followed by western blot with 22637-1-AP (C9orf72 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



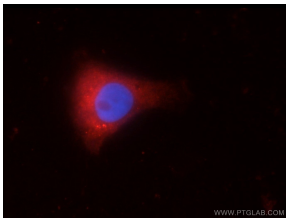
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP(C9orf72 antibody) at dilution of 1:1000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



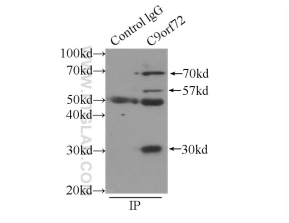
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22637-1-AP(C9orf72 antibody) at dilution of 1:1000 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



HeLa cells were subjected to SDS PAGE followed by western blot with 22637-1-AP(C9orf72 antibody) at dilution of 1:800 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.