

For Research Use Only

C9orf72 Polyclonal antibody

Catalog Number: 25757-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

25757-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG22723

GenBank Accession Number:

BC068445

GeneID (NCBI):

203228

UNIPROT ID:

Q96LT7

Full Name:

chromosome 9 open reading frame 72

Calculated MW:

481 aa, 54 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:300-1:1500

IHC 1:500-1:2000

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, rat

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 : mouse brain tissue, HEK-293 cells, SH-SY5Y cells

IHC : human gliomas tissue, human testis tissue

IF : mouse brain tissue,

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. This antibody detects the N-terminal of C9orf72.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenzhong Zheng	36438488	Theranostics	WB
Carl Laflamme	31612854	Elife	WB, IF
Claudia S Bauer	35876881	Acta Neuropathol	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

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

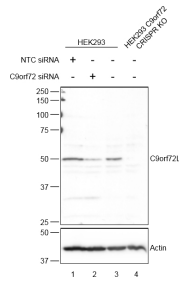
T: 4006900926

E: Proteintech-CN@ptglab.com

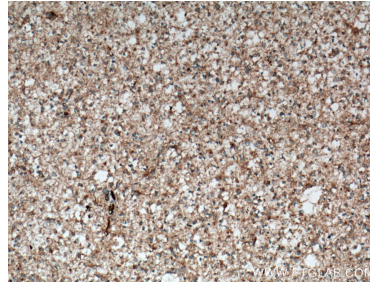
W: ptgcn.com

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

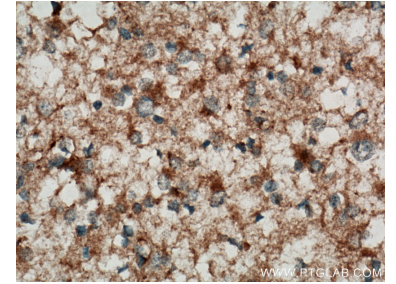
Selected Validation Data



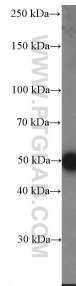
WB result of C9orf72 antibody (25757-1-AP, 1:250 incubated at RT for 1 hour) with si-C9orf72 HEK293 cells, C9orf72 CRISPR KO HEK293 cells; normal HEK293 cells and non-targeting control (NTC) siRNA transfected HEK293 cells as control. The ~50 kDa is the C9orf72 Long isoform. (Data from Dr Chris Webster, Postdoc in Kurt de Vos's group at SITRAN).



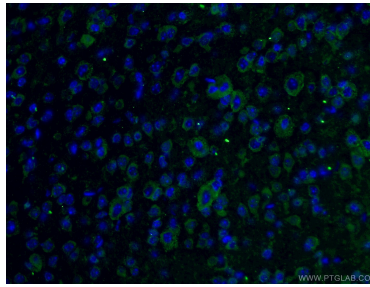
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 25757-1-AP (C9orf72 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 25757-1-AP (C9orf72 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).