

For Research Use Only

C9orf72 Polyclonal antibody

Catalog Number: 25757-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

25757-1-AP

Size:

600 ug/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 1:250-1:1000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

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 appendicitis tissue, human ovary tumor tissue, human testis tissue, mouse kidney tissue, mouse small intestine tissue

IF-P: 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:

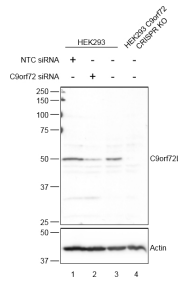
T: 4006900926

E: Proteintech-CN@ptglab.com

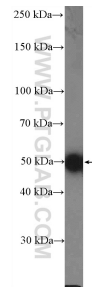
W: ptgcn.com

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

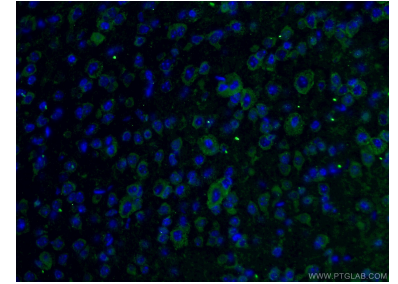
Selected Validation Data



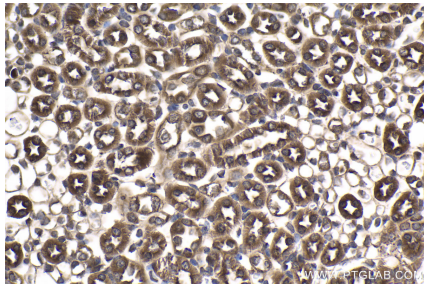
WB result of C9orf72 antibody (25757-1-AP, 1:250 incubated at RT for 1 hour) with si-C9orf72 HEK293 cells, C9orf72 CRISPR KO HEK293 cells; normal HEK293 cells and non-targeting control (NTC) siRNA transfected HEK293 cells as control. The ~50 kDa is the C9orf72 Long isoform. (Data from Dr Chris Webster,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



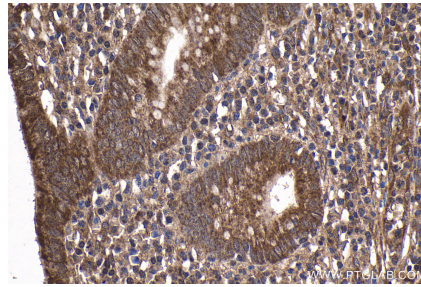
mouse brain tissue were subjected to SDS PAGE followed by western blot with 25757-1-AP (C9orf72 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



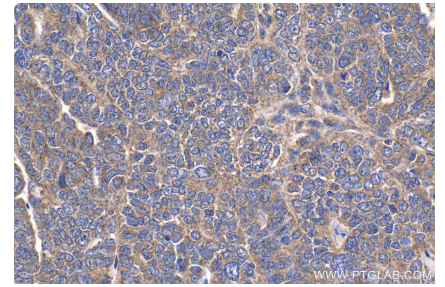
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 25757-1-AP (C9orf72 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 25757-1-AP (C9orf72 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).