For Research Use Only

# C9orf72 Monoclonal antibody

Catalog Number:66140-1-Ig 6 Publications

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## Basic Information

Catalog Number:
66140-1-Ig

Size:
150ul , Concentration: 2600 ug/ml by Nanodrop and 1173 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG21080

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:
55 kDa

Purification Method:
Protein A purification

CloneNo.:
3D2H6

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000
IF/ICC 1:200-1:800

## Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, 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 : human brain tissue, C6 cells, Neuro-2a cells

IP : C6 cells,

IHC : human gliomas tissue, human brain tissue

IF/ICC : 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). FTLD-TDP has five subtypes: Sporadic FTLD, GRN mutation FTLD, TARDBP mutation FTLD, VCP mutation FTLD and C9ORF72 mutation 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.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Rajeeve Sivadasan | 27723745 | Nat Neurosci | WB |
| Shahram Saberi | 29196813 | Acta Neuropathol | IHC |
| Wei Dong | 33024945 | Animal Model Exp Med | WB |

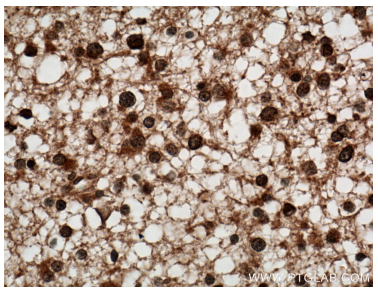
## Storage

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

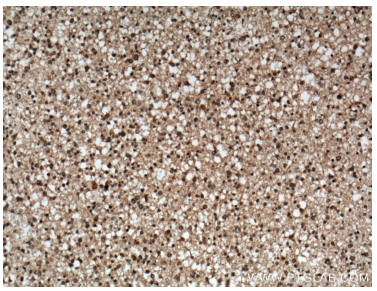
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

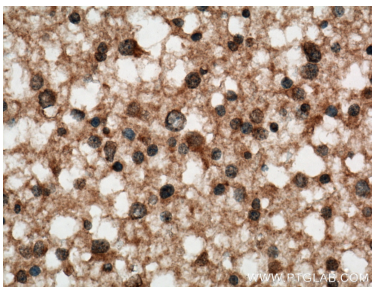
## Selected Validation Data



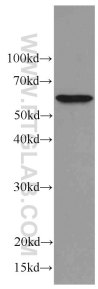
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



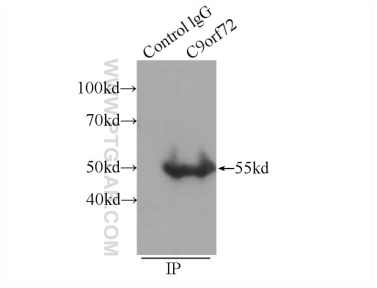
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



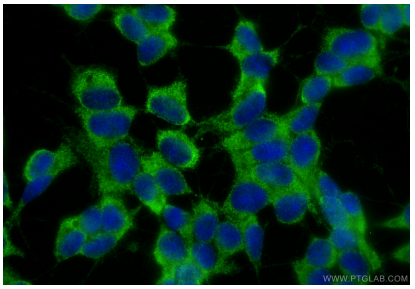
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




human brain tissue were subjected to SDS PAGE followed by western blot with 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.




IP result of anti-C9orf72 (IP:66140-1-Ig, 4ug; Detection:66140-1-Ig 1:1000) with C6 cells lysate 1320ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using C9orf72 antibody (66140-1-Ig, Clone: 3D2H6 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).