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

Concentration:
2600 ug/ml

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

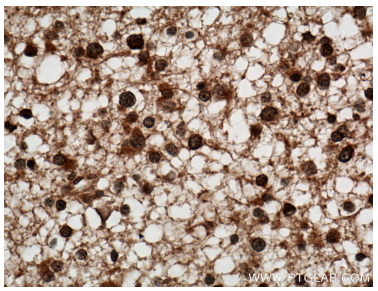
Author	Pubmed ID	Journal	Application
Rajeeve Sivadasan	27723745	Nat Neurosci	WB
Shahram Saberi	29196813	Acta Neuropathol	IHC
Wei Dong	33024945	Animal Model Exp Med	WB

Storage

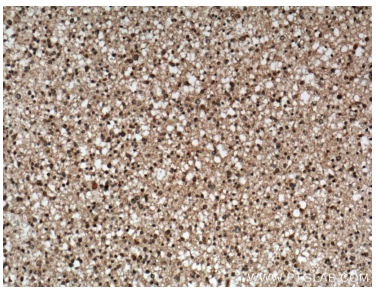
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

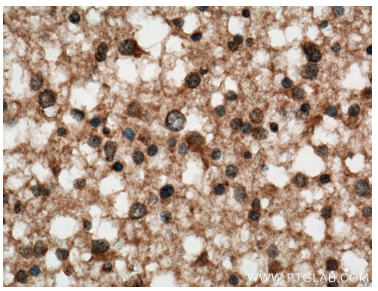
Selected Validation Data



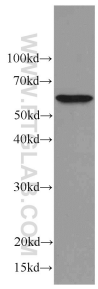
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



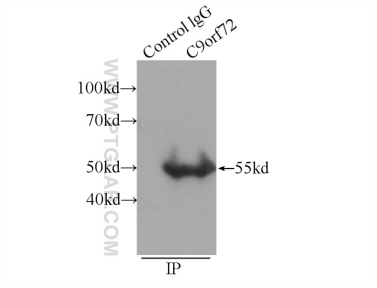
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



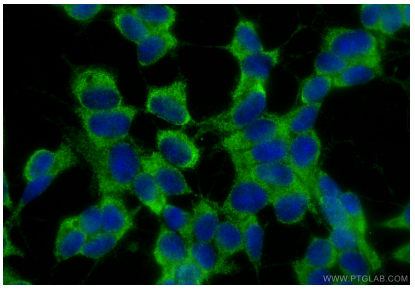
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66140-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).