For Research Use Only

C9orf72 Monoclonal antibody

Catalog Number:67824-1-Ig

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
67824-1-Ig

Size:
1000 μg/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:
50 kDa

Purification Method:
Protein A purification

CloneNo.:
2F9A2

Recommended Dilutions:
WB 1:1000-1:6000

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human, mouse, rat, pig

Positive Controls:

WB : pig brain tissue, HEK-293 cells, U-87 MG cells, Neuro-2a cells, PC-12 cells, C6 cells, rat brain tissue, mouse brain tissue

Background Information

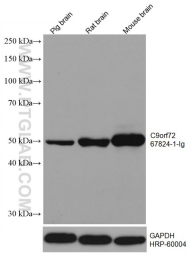
C9ORF72 has a domain whith polymorphic hexanucleotide repeat (GGGGCC). The C9ORF72-hexanucleotide repeat expansions have been recently identified as genetic markers in amyotrophic lateral sclerosis (ALS) and frontotemporal lobar degeneration (FTLD). The C9ORF72 repeat expansions may indicate a worse prognosis in ALS. Human C9ORF72 has some isoforms with MW 54-60 kDa and 25-30 kDa. Mouse C9orf72 has some isoforms with MW 50-60 kDa and 35 kDa.

Storage

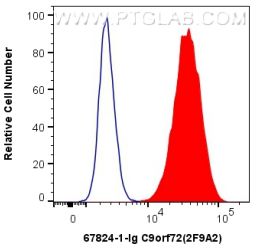
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

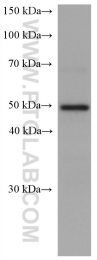
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67824-1-Ig (C9orf72 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



1X10^6 HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human C9orf72 (67824-1-Ig, Clone:2F9A2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Neuro-2a cells were subjected to SDS PAGE followed by western blot with 67824-1-Ig (C9orf72 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.