

For Research Use Only

# C9orf72 Monoclonal antibody

Catalog Number: 67824-1-Ig



## Basic Information

<b>Catalog Number:</b> 67824-1-Ig	<b>GenBank Accession Number:</b> BC020851	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 203228	<b>CloneNo.:</b> 2F9A2
<b>Source:</b> Mouse	<b>Full Name:</b> chromosome 9 open reading frame 72	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 481 aa, 54 kDa	
<b>Immunogen Catalog Number:</b> AG21080	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
FC, WB, 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 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.

## 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**

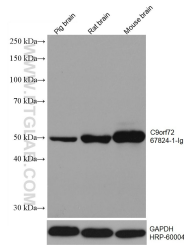
For technical support and original validation data for this product please contact:

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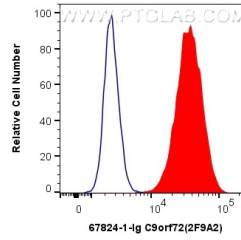
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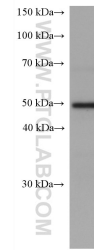
## Selected Validation Data



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<sup>6</sup> 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.