

# 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 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 203228	<b>CloneNo.:</b> 2F9A2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q96LT7	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:2000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> chromosome 9 open reading frame 72	
<b>Immunogen Catalog Number:</b> AG21080	<b>Calculated MW:</b> 481 aa, 54 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse, rat, pig

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

**IHC :** mouse lung tissue, mouse intestine, rat kidney 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

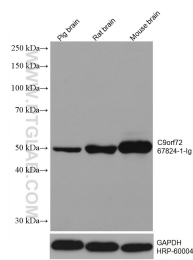
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

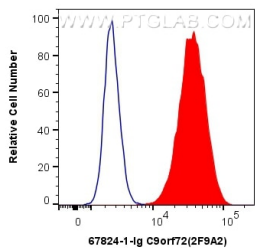
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

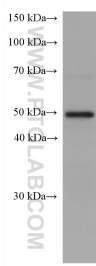
Selected Validation Data



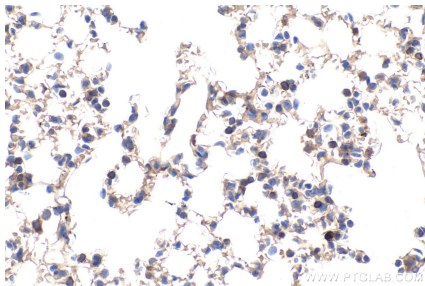
Various lysates were subjected to SDS PAGE followed by western blot with 67824-1-Ig (C9orf72 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



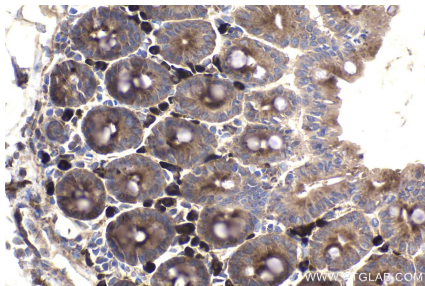
1X10<sup>6</sup> HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human C9orf72 (67824-1-Ig, Clone:2F9A2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were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



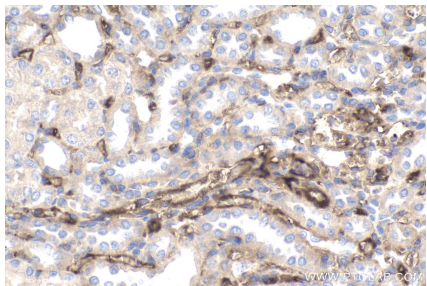
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 67824-1-Ig (C9orf72 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 67824-1-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 mouse intestine tissue slide using 67824-1-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 rat kidney tissue slide using 67824-1-Ig (C9orf72 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).