Product Name: **C9orf72 Mouse Monoclonal Antibody**
Catalog #: **AMM82956**
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA,FC
Reactivity	Human, Mouse, Monkey, Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	54.3kDa

Antigen Information

Gene Name	C9orf72
Alternative Names	ALSFTD; DENND9; FTDALS; DENNL72; FTDALS1
Gene ID	203228.0
SwissProt ID	
Immunogen	Purified recombinant fragment of human C9orf72 (AA: 110-199) expressed in E. Coli.

Background

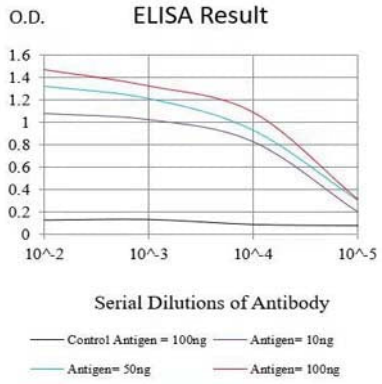
The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between alternate 5' exons in transcripts from this gene is associated with

9p-linked ALS (amyotrophic lateral sclerosis) and FTD (frontotemporal dementia) (PMID: 21944778, 21944779). Studies suggest that hexanucleotide expansions could result in the selective stabilization of repeat-containing pre-mRNA, and the accumulation of insoluble dipeptide repeat protein aggregates that could be pathogenic in FTD-ALS patients (PMID: 23393093). Alternative splicing results in multiple transcript variants encoding different isoforms.

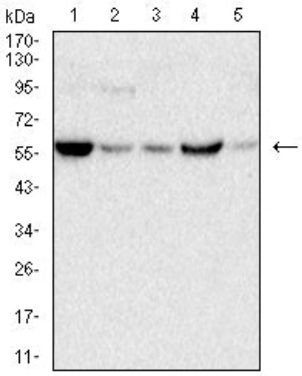
Research Area

Autophagy

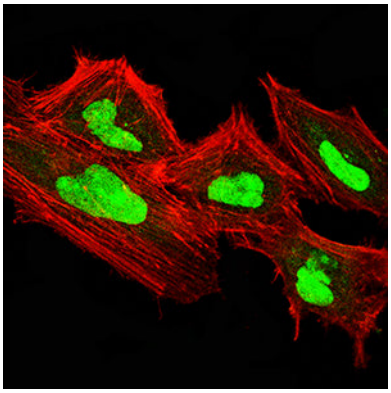
Image Data



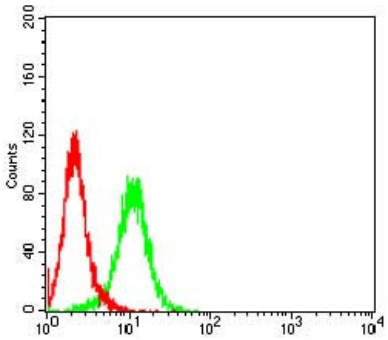
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



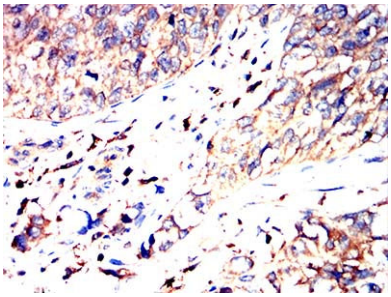
Western blot analysis using C9orf72 mouse mAb against C6 (1), PC-12 (2),COS-7 (3),NIH/3T3 (4) and SK-N-SH (5) cell lysate.



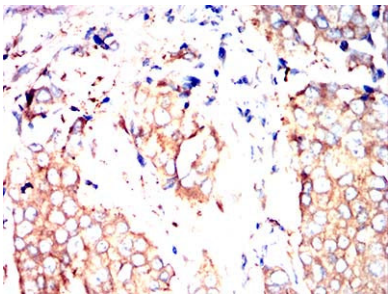
Immunofluorescence analysis of Hela cells using C9orf72 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



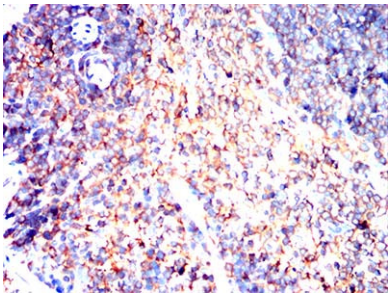
Flow cytometric analysis of Hela cells using C9orf72 mouse mAb (green) and negative control (red).



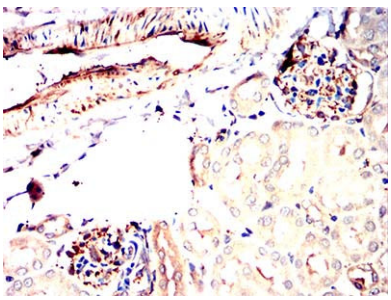
Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using C9orf72 mouse mAb with DAB staining.



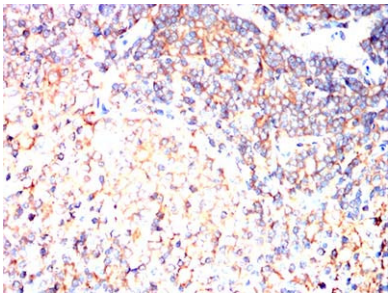
Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using C9orf72 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissues using C9orf72 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissues using C9orf72 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rat spleen tissues using C9orf72 mouse mAb with DAB staining.