Product Name: C9orf72 Mouse Monoclonal Antibody
Catalog #: AMM82961

Summary

Production Name	C9orf72 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,FC,ELISA
Reactivity	Human, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	C9orf72
Alternative Names	ALSFTD; DENND9; FTDALS; DENNL72; FTDALS1
Gene ID	203228.0
SwissProt ID	Q96LT7.Purified recombinant fragment of human C9orf72 (AA: 110-199) expressed in E. Coli.

Application

Dilution Ratio	IHC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	54.3kDa

Background

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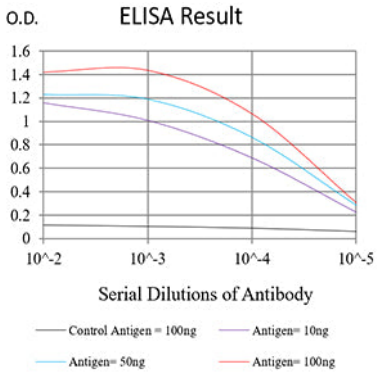
The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between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

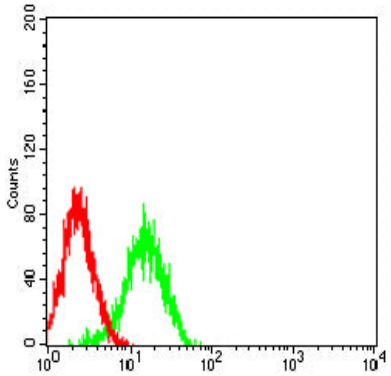
Research Area

Autophagy

Image Data



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



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

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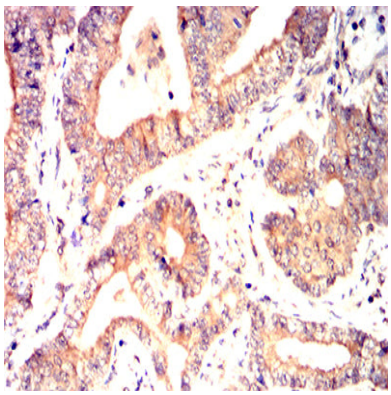
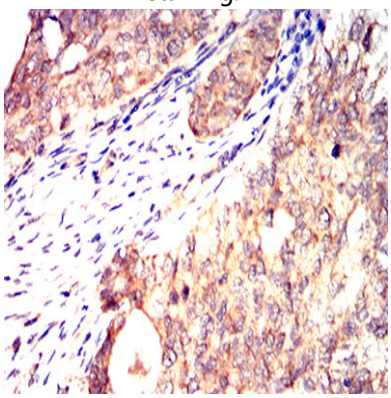
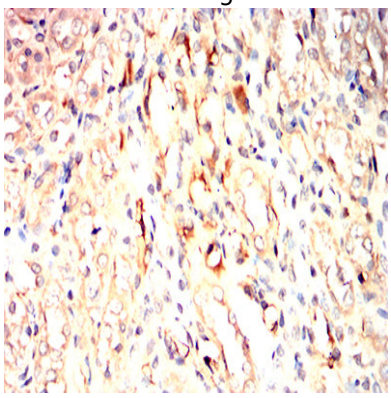


Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using C9orf72 mouse mAb with DAB staining.



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



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

Note

For research use only.