

C9orf72 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4576
Host	Mouse
Isotype	Mouse IgG2b
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human C9orf72 (AA: 110-199) expressed in E. Coli.
Mol wt	54.3kDa
Species reactivity	Human,Mouse,Monkey,Rat
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	ALSFTD;DENND9;FTDALS;DENNL72;FTDALS1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

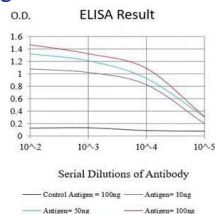
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

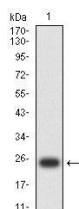
ELISA: 1:10000

Not yet tested in other applications.

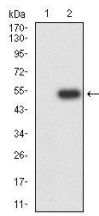
Images



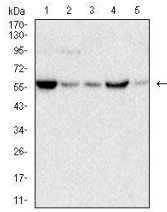
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



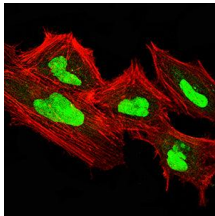
Western blot analysis using C9orf72 mAb against human C9orf72 (AA: 110-199) recombinant protein. (Expected MW is 24 kDa)



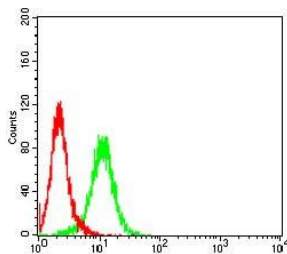
Western blot analysis using C9orf72 mAb against HEK293-6e (1) and C9orf72 (AA: 110-199)-hlgGFc transfected HEK293-6e (2) cell lysate.



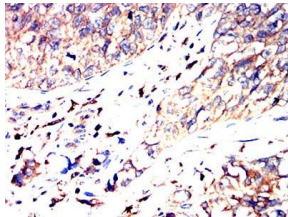
Western blot analysis using C9orf72 mouse mAb against C6 (1), PC-12 (2), COS-7 (3), NIH/3T3 (4) and SK-N-SH (5) cell lysate.



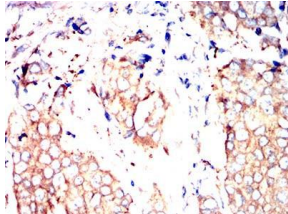
Immunofluorescence analysis of HeLa cells using C9orf72 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



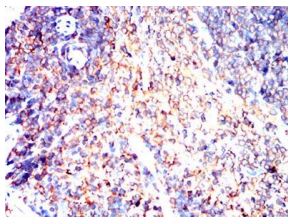
Flow cytometric analysis of HeLa cells using C9orf72 mouse mAb (green) and negative control (red).



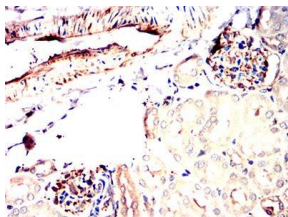
Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using C9orf72 mouse mAb with DAB staining.



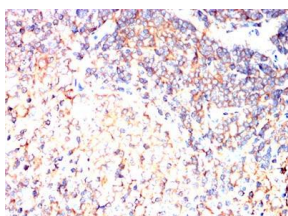
Immunohistochemical analysis of paraffin-embedded breast cancer tissues using C9orf72 mouse mAb with DAB staining.



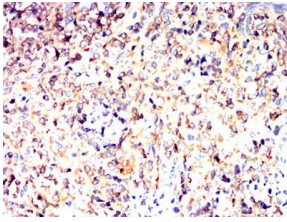
Immunohistochemical analysis of paraffin-embedded mouse spleen tissues using C9orf72 mouse mAb with DAB staining.



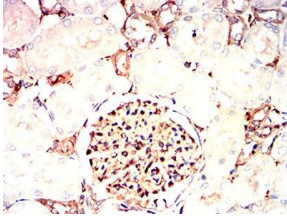
Immunohistochemical analysis of paraffin-embedded mouse kidney tissues using C9orf72 mouse mAb with DAB staining.



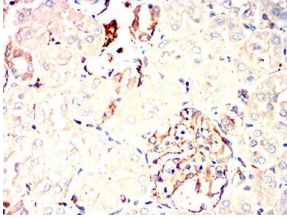
Immunohistochemical analysis of paraffin-embedded rat spleen tissues using C9orf72 mouse mAb with DAB staining.



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



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



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

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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