

Rabbit FUS Polyclonal Antibody | anti-FUS antibody

FUS Antibody (C-term)

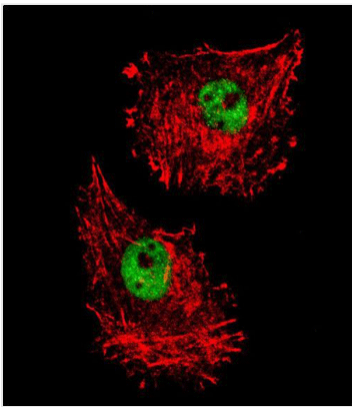
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283899	Rabbit	Human, Mouse Predicted: Bovine	Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

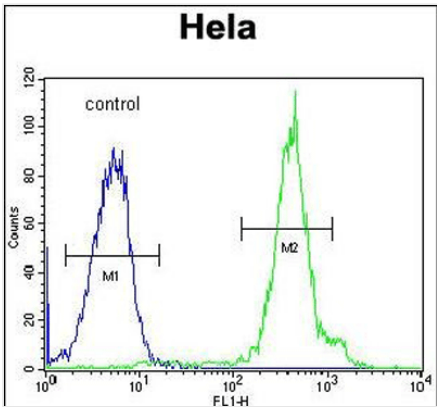
FUS; Polyclonal Antibody; FUS Antibody (C-term); RNA-binding protein FUS; 75 kDa DNA-pairing protein; Oncogene FUS; Oncogene TLS; POMp75; Translocated in liposarcoma protein; TLS; anti-FUS antibody

PRODUCT SPECIFICATIONS

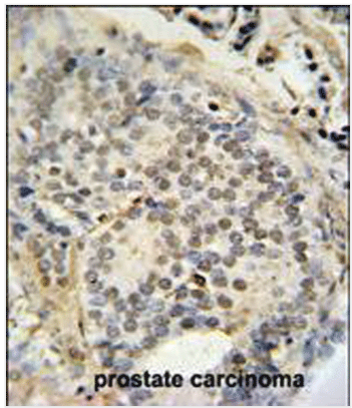
Host	Rabbit
Reactivity	Human, Mouse Predicted: Bovine
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This FUS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 499-526 amino acids from the C-terminal region of human FUS.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	499-526
Applicable Applications for anti-FUS antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	DNA/RNA-binding protein that plays a role in various cellular processes such as transcription regulation, RNA splicing, RNA transport, DNA repair and damage response (PubMed:). Binds to nascent pre-mRNAs and acts as a molecular mediator between RNA polymerase II and U1 small nuclear ribonucleoprotein thereby coupling transcription and splicing (PubMed:). Binds also its own pre- mRNA and autoregulates its expression; this autoregulation mechanism is mediated by non-sense-mediated decay (PubMed:). Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair (PubMed:). In neuronal cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis (By similarity).
Cellular Location	Nucleus Note=Displays a punctate pattern inside the nucleus and is excluded from nucleoli.
Tissue Location	Ubiquitous.
Antigen Region	499-526
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



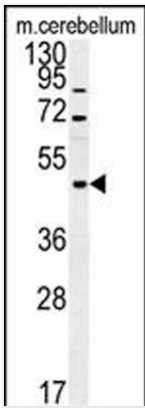
IF (Immunofluorescence)
Confocal immunofluorescent analysis of FUS Antibody (C-term) (AAA283899) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).



FCM/FACS (Flow Cytometry)
FUS Antibody (C-term) (AAA283899) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
FUS antibody (C-term) (AAA283899) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FUS antibody (C-term) (AAA283899) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
FUS Antibody (C-term) (AAA283899) western blot analysis in mouse cerebellum tissue lysates (15ug/lane). This demonstrates the FUS antibody detected FUS protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-FUS antibody	This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6.
Product Categories/Family for anti-FUS antibody	Cancer
References	Kim, S.H., et al. J. Biol. Chem. 285(44):34097-34105(2010) Mackenzie, I.R., et al. Lancet Neurol 9(10):995-1007(2010) Yan, J., et al. Neurology 75(9):807-814(2010) Waibel, S., et al. Neurology 75(9):815-817(2010) Baumer, D., et al. Neurology 75(7):611-618(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	283135201
NCBI GeneID	2521
NCBI Accession #	NP_001164105.1; NP_004951.1
NCBI GenBank Nucleotide #	NM_001170634.1
UniProt Accession #	P35637; Q9H4A8
Molecular Weight	53426
NCBI Official Full Name	RNA-binding protein FUS isoform 2
NCBI Official Synonym Full Names	FUS RNA binding protein
NCBI Official Symbol	FUS
NCBI Official Synonym Symbols	TLS; ALS6; ETM4; FUS1; POMP75; HNRNPP2
NCBI Protein Information	RNA-binding protein FUS
UniProt Protein Name	RNA-binding protein FUS
UniProt Gene Name	FUS
UniProt Synonym Gene Names	TLS
UniProt Entry Name	FUS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fus-antibody-immunofluorescence-flow-cytometry-immunohistochemistry-western-blot-elisa/283899>