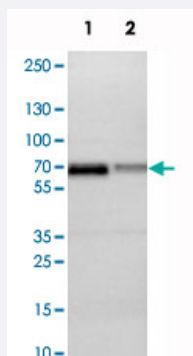


FUS polyclonal antibody

Catalog # PAB20448

Size 100 uL

Applications

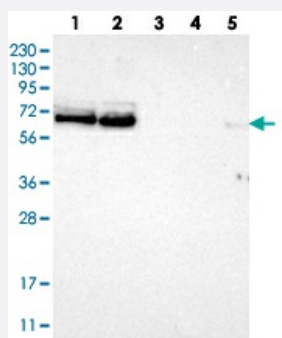


Western Blot (Cell lysate)

Western blot analysis of cell lysates with FUS polyclonal antibody (Cat # PAB20448) at 1:250-1:500 dilution.

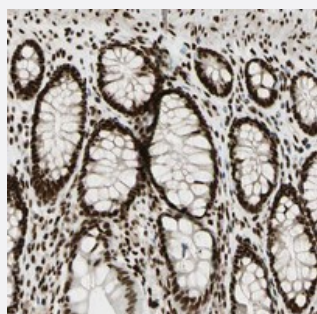
Lane 1 : NIH/3T3

Lane 2 : NBT-II



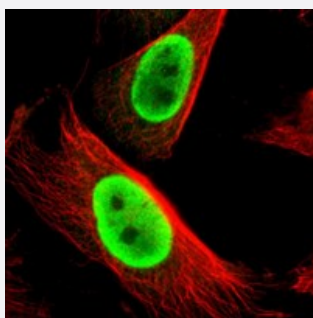
Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: U-251 MG, Lane 3: Human Plasma, Lane 4: Liver, Lane 5: Tonsil with FUS polyclonal antibody (Cat # PAB20448) at 1:250-1:500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human colon with FUS polyclonal antibody (Cat # PAB20448) shows strong nuclear positivity in glandular cells at 1:1000-1:2500 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line U-251 MG with FUS polyclonal antibody (Cat # PAB20448) at 1-4 ug/mL dilution shows positivity in nucleus but not nucleoli.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant FUS.
Immunogen	Recombinant protein corresponding to amino acids of human FUS.
Sequence	SSQSSYGQQSSYPGYGQQPAPSSTSGSYGSSSSQSSSYGQPQSGSYSQQPSYGGQQQSYGQQQ SYNPPQGYGQQNQYNSSSGGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGSGG YGQQDR
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:1000-1:2500) Western Blot (1:250-1:500) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of cell lysates with FUS polyclonal antibody (Cat # PAB20448) at 1:250-1:500 dilution.

Lane 1 : NIH/3T3

Lane 2 : NBT-II

- Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: U-251 MG, Lane 3: Human Plasma, Lane 4: Liver, Lane 5: Tonsil with FUS polyclonal antibody (Cat # PAB20448) at 1:250-1:500 dilution.

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Immunofluorescent staining of human cell line U-251 MG with FUS polyclonal antibody (Cat # PAB20448) at 1-4 ug/mL dilution shows positivity in nucleus but not nucleoli.

Gene Info — FUS

Entrez GeneID [2521](#)

Protein Accession# [P35637](#)

Gene Name FUS

Gene Alias CHOP, FUS-CHOP, FUS1, TLS, TLS/CHOP, hnRNP-P2

Gene Description fusion (involved in t(12;16) in malignant liposarcoma)

Omim ID [137070](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations FUS-CHOP fusion protein|FUS-CHOP protein fusion|Fusion gene in myxoid liposarcoma|fus-like protein|fus/tls-chop oncogene|heterogeneous nuclear ribonucleoprotein P2|translocated in liposarcoma

Publication Reference

- [RNA and the RNA-binding protein FUS act in concert to prevent TDP-43 spatial segregation.](#)

Clément Demongin, Samuel Tranier, Vandana Joshi, Léa Ceschi, Bénédicte Desforges, David Pastré, Loïc Hamon.

The Journal of Biological Chemistry 2024 Feb; 300(3):105716.

Application: Proximity Ligation Assay , Human, Hela cells

- [Therapeutic modulation of GSTO activity rescues FUS-associated neurotoxicity via deglutathionylation in ALS disease models.](#)

Sun Joo Cha, Seongsoo Lee, Hyun-Jun Choi, Yeo Jeong Han, Yu-Mi Jeon, Myungjin Jo, Shinrye Lee, Minyeop Nahm, Su Min Lim, Seung Hyun Kim, Hyung-Jun Kim, Kiyong Kim.

Developmental Cell 2022 Mar; 57(6):783.

Application: IF, Fruit fly, Fruit fly brain

Disease

- [Amyotrophic Lateral Sclerosis](#)
- [Azoospermia](#)
- [Cognition Disorders](#)
- [Diabetes Mellitus](#)
- [Frontotemporal Dementia](#)
- [Frontotemporal Lobar Degeneration](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Oligospermia](#)
- [Overweight](#)
- [Parkinsonian Disorders](#)

- [Prostate cancer](#)