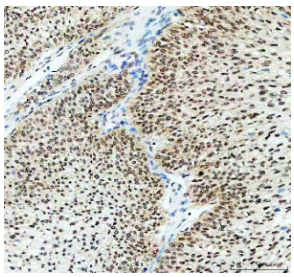
ELAVL1 Antibody / ELAV Like RNA Binding Protein 1 Antibody (FY13478)

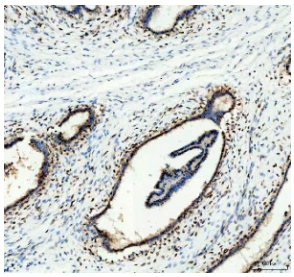
Catalog No.	Formulation	Size
FY13478	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

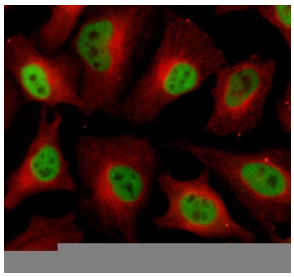
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q15717
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This ELAVL1 Antibody / ELAV Like RNA Binding Protein 1 is available for research use only.



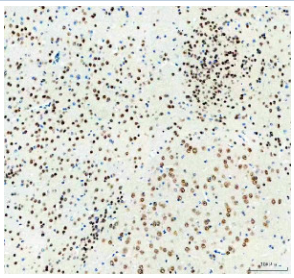
ELAVL1 Antibody Human Ovarian Cancer IHC. Immunohistochemical analysis of FFPE human ovarian cancer tissue using ELAVL1 Antibody. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to incubation with the primary antibody (1:100) overnight at 4Â°C. An HRP-conjugated goat anti-rabbit secondary antibody with DAB chromogen was used for visualization. Strong, widespread nuclear staining is observed throughout the tumor cells with only limited cytoplasmic immunoreactivity, consistent with the predominant nuclear localization of ELAVL1 under basal conditions. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 in FFPE human ovarian cancer tissue.



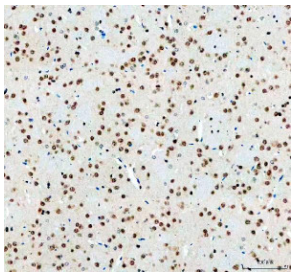
ELAVL1 Antibody Human Breast Cancer IHC. Immunohistochemical analysis of FFPE human breast cancer tissue using ELAVL1 Antibody. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to incubation with the primary antibody (1:100) overnight at 4Â°C. An HRP-conjugated goat anti-rabbit secondary antibody with DAB chromogen was used for visualization. Distinct nuclear staining with additional cytoplasmic immunoreactivity is observed in the neoplastic epithelial cells, consistent with the characteristic subcellular distribution of ELAVL1 and its regulated nucleocytoplasmic shuttling. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 in FFPE human breast cancer tissue.



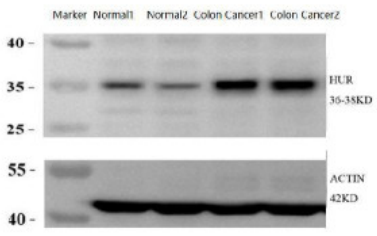
ELAVL1 Antibody HeLa Cell IF. Immunofluorescent staining of HeLa cells using ELAVL1 Antibody together with alpha tubulin antibody. Cells underwent enzyme-mediated antigen retrieval for 15 minutes before incubation with ELAVL1 Antibody at 5 ug/mL and an alpha tubulin antibody overnight at 4Â°C. A Fluoro488-conjugated goat anti-rabbit secondary antibody was used to detect ELAVL1 (green), while a Cy3-conjugated goat anti-mouse secondary antibody labeled alpha tubulin (red). Prominent nuclear localization of ELAVL1 is observed with comparatively weaker cytoplasmic staining, consistent with its role as a nucleocytoplasmic RNA-binding protein that regulates messenger RNA stability. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 in cultured human cells.



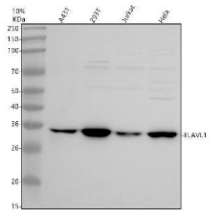
ELAVL1 Antibody Mouse Brain IHC. Immunohistochemical analysis of FFPE mouse brain tissue using ELAVL1 Antibody. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to incubation with the primary antibody (1:100) overnight at 4Â°C. An HRP-conjugated goat anti-rabbit secondary antibody with DAB chromogen was used for visualization. Strong nuclear staining is observed throughout neuronal cell populations, with weaker cytoplasmic immunoreactivity in scattered cells, consistent with the characteristic nuclear localization and regulated nucleocytoplasmic shuttling of ELAVL1. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 in FFPE mouse brain tissue.



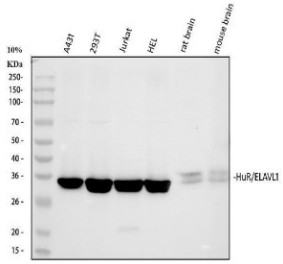
ELAVL1 Antibody Rat Brain IHC. Immunohistochemical analysis of FFPE rat brain tissue using ELAVL1 Antibody. Heat-induced epitope retrieval was performed in pH 8.0 EDTA buffer prior to incubation with the primary antibody (1:100) overnight at 4Â°C. An HRP-conjugated goat anti-rabbit secondary antibody with DAB chromogen was used for visualization. Strong nuclear staining is observed throughout neuronal cell populations with minimal cytoplasmic immunoreactivity, consistent with the characteristic nuclear localization of ELAVL1 and its role in regulating messenger RNA stability. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 in FFPE rat brain tissue.



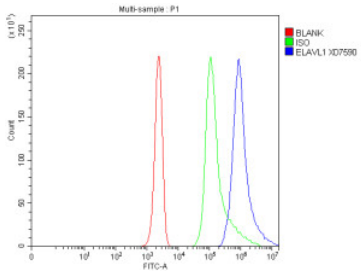
ELAVL1 Antibody Rat Colon Cancer Model WB. Western blot analysis of ELAVL1 Antibody using lysates from 1) normal rat colon tissue, 2) normal rat colon tissue, 3) rat colon cancer model tissue, and 4) rat colon cancer model tissue. Samples (30 ug/lane) were separated on an 8% SDS-PAGE gel under reducing conditions, transferred to a membrane, and detected with ELAVL1 Antibody at a 1:2000 dilution followed by an HRP-conjugated secondary antibody and ECL detection. A specific band is observed at approximately 36â€“38 kDa, with stronger ELAVL1 expression in the rat colon cancer model samples than in normal colon tissue. Actin served as the loading control. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 and can distinguish differential expression associated with colorectal tumorigenesis.



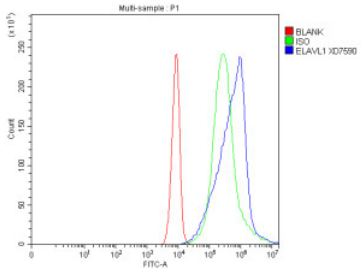
ELAVL1 Antibody Human Cell WB. Western blot analysis of ELAVL1 Antibody using lysates from 1) human A431 cells, 2) human 293T cells, 3) human Jurkat cells, and 4) human HeLa cells. Samples (30 ug/lane) were separated on a 10% SDS-PAGE gel under reducing conditions, transferred to a membrane, and detected with ELAVL1 Antibody at 0.5 ug/mL followed by an HRP-conjugated secondary antibody and ECL detection. A specific band is observed at approximately 36 kDa in all four human cell lines, consistent with the predicted molecular weight of ELAVL1. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 across multiple human cell lines.



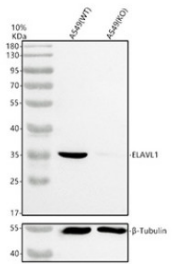
ELAVL1 Antibody Human and Rodent WB. Western blot analysis of ELAVL1 Antibody using lysates from 1) human A431 cells, 2) human 293T cells, 3) human Jurkat cells, 4) human HEL cells, 5) rat brain tissue, and 6) mouse brain tissue. Samples (30 ug/lane) were separated on an 8% SDS-PAGE gel under reducing conditions, transferred to a membrane, and detected with ELAVL1 Antibody at a 1:1000 dilution followed by an HRP-conjugated secondary antibody and ECL detection. A specific band is observed at approximately 36 kDa in all human and rodent samples, consistent with the predicted molecular weight of ELAVL1. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, specifically detects endogenous ELAVL1 across multiple species and tissue types.



ELAVL1 Antibody Jurkat Cell FACS. Flow cytometric analysis of fixed and permeabilized Jurkat cells using ELAVL1 Antibody. Cells were fixed with 4% paraformaldehyde, permeabilized, blocked with normal goat serum, and incubated with ELAVL1 Antibody (1 ug/10^6 cells) for 30 minutes at 20Â°C. A Fluoro488-conjugated goat anti-rabbit secondary antibody was used for detection. The blue histogram represents ELAVL1 staining, the green histogram is the rabbit IgG isotype control, and the red histogram is the unstained control. A pronounced rightward shift of the ELAVL1-stained population demonstrates specific intracellular detection of endogenous ELAVL1. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, is suitable for flow cytometric analysis of intracellular ELAVL1 expression.



ELAVL1 Antibody A431 Cell FACS. Flow cytometric analysis of fixed and permeabilized A431 cells using ELAVL1 Antibody. Cells were fixed with 4% paraformaldehyde, permeabilized, blocked with normal goat serum, and incubated with ELAVL1 Antibody (1 ug/10^6 cells) for 30 minutes at 20Â°C. A Fluoro488-conjugated goat anti-rabbit secondary antibody was used for detection. The blue histogram represents ELAVL1 staining, the green histogram is the rabbit IgG isotype control, and the red histogram is the unstained control. A distinct rightward shift of the ELAVL1-stained population relative to the isotype control demonstrates specific intracellular detection of endogenous ELAVL1 in A431 cells. These results demonstrate that ELAVL1 Antibody, an ELAV Like RNA Binding Protein 1 Antibody, is suitable for flow cytometric analysis of intracellular ELAVL1 expression.



ELAVL1 Antibody WB Analysis of Wild-Type and Knockout A549 Cells. Western blot analysis of human A549 wild-type (WT, lane 1) and ELAVL1 knockout (KO, lane 2) whole-cell lysates using ELAV Like RNA Binding Protein 1 Antibody at 0.5 ug/ml. A prominent band is detected near 36 kDa in WT lysate and is absent in KO lysate, supporting antibody specificity for ELAVL1. Each lane contains 30 ug of protein under reducing conditions. Beta-Tubulin serves as the loading control.

Description

ELAVL1 Antibody recognizes ELAV Like RNA Binding Protein 1 (ELAVL1), an RNA-binding protein that plays a fundamental role in post-transcriptional gene regulation by controlling messenger RNA stability, localization, and translation. ELAVL1 belongs to the ELAV family of RNA-binding proteins and is expressed in virtually all cell types, distinguishing it from the neuron-specific ELAV family members. Through selective binding to adenylate-uridylate-rich elements located within the three prime untranslated regions of target transcripts, ELAVL1 stabilizes numerous messenger RNAs encoding proteins involved in cell proliferation, stress responses, inflammation, apoptosis, angiogenesis, and immune regulation. Because of its central role in RNA metabolism, ELAVL1 Antibody is widely used to investigate post-transcriptional gene regulation, RNA biology, and cellular stress responses.

ELAVL1 shuttles dynamically between the nucleus and cytoplasm in response to extracellular stimuli, cellular stress, and signaling pathway activation. This regulated intracellular trafficking determines which messenger RNAs are stabilized and translated, allowing cells to rapidly modify protein expression without altering transcription. ELAVL1 regulates transcripts encoding cytokines, growth factors, cell cycle proteins, transcription factors, and numerous signaling molecules that coordinate proliferation, differentiation, senescence, and survival. These activities place ELAVL1 at the center of multiple signaling networks controlling normal physiology and adaptation to environmental stress. Consequently, ELAVL1 Antibody has become an essential research reagent for studies of RNA processing, messenger RNA turnover, stress granule biology, inflammation, and signal-dependent gene expression.

Abnormal ELAVL1 activity has been implicated in numerous human diseases. Increased cytoplasmic localization and altered expression have been associated with many cancers, including colorectal, breast, lung, prostate, ovarian, pancreatic, and liver carcinomas, where ELAVL1 promotes stabilization of messenger RNAs involved in tumor growth, angiogenesis, invasion, metastasis, and therapeutic resistance. ELAVL1 also contributes to inflammatory disorders, autoimmune diseases, cardiovascular disease, neurodegeneration, and viral infection through regulation of immune and stress-response transcripts. Researchers commonly employ ELAVL1 Antibody in Western blotting, immunohistochemistry, immunofluorescence, immunoprecipitation, RNA-protein interaction studies, and related protein expression analyses to characterize ELAVL1 localization and function in normal and diseased tissues.

NSJ Bioreagents provides ELAVL1 Antibody products that undergo validation for research applications to support reliable detection of this important RNA-binding protein. Whether investigating messenger RNA stability, post-transcriptional regulation, cellular stress responses, cancer biology, inflammation, or RNA metabolism, a high-quality ELAV Like RNA Binding Protein 1 Antibody enables accurate characterization of ELAVL1 expression and intracellular localization. As the importance of RNA biology continues to expand across biomedical research, ELAVL1 Antibody remains an indispensable tool for studying the molecular mechanisms that regulate gene expression after transcription.

Explore our Cancer Antibodies page to discover additional antibodies against RNA-binding proteins, transcriptional regulators, signaling molecules, and other biomarkers that complement ELAVL1 Antibody research.

Application Notes

Optimal dilution of the ELAVL1 Antibody / ELAV Like RNA Binding Protein 1 should be determined by the researcher.

Immunogen

E. coli-derived recombinant human ELAV Like RNA Binding Protein 1 (amino acids M1-S232) was used as the immunogen for the ELAVL1 Antibody.

Storage

After reconstitution, the ELAVL1 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

ELAVL1 antibody, ELAV Like RNA Binding Protein 1 antibody, Hu Antigen R antibody, Embryonic Lethal Abnormal Vision Like Protein 1 antibody, ELAV-Like Protein 1 antibody, RNA Binding Protein HuR antibody

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