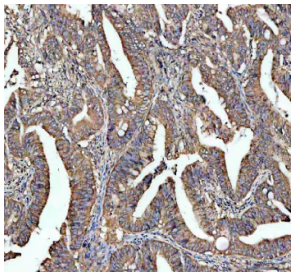
STRIP1 Antibody / Striatin-interacting protein 1 (FY12665)

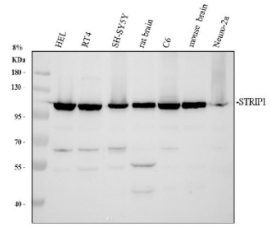
Catalog No.	Formulation	Size
FY12665	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

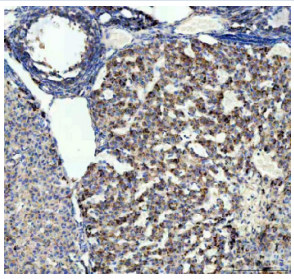
Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q5VSL9
Localization	Cytoplasm
Applications	Western Blot: 0.25-0.5ug/ml Immunohistochemistry: 2-5ug/ml Immunoprecipitation: 2-4ug/500ug of lysate Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This STRIP1 antibody is available for research use only.



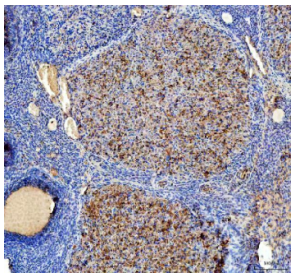
Immunohistochemical staining of STRIP1 using anti-STRIP1 antibody. STRIP1 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-STRIP1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.



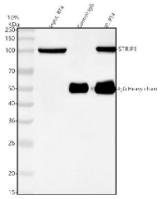
Western blot analysis of STRIP1 using anti-STRIP1 antibody. Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human HEL whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse Neuro-2a whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-STRIP1 antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substratewith Tanon 5200 system. The expected molecular weight of STRIP1 is ~96 kDa.



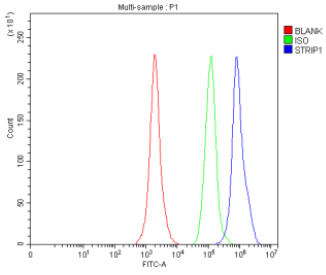
Immunohistochemical staining of STRIP1 using anti-STRIP1 antibody. STRIP1 was detected in a paraffin-embedded section of mouse ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-STRIP1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.



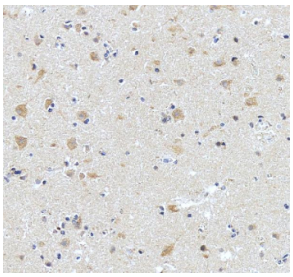
Immunohistochemical staining of STRIP1 using anti-STRIP1 antibody. STRIP1 was detected in a paraffin-embedded section of rat ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-STRIP1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.



Immunoprecipitating (IP) STRIP1 in RT4 whole cell lysate. Western blot analysis of STRIP1 using anti-STRIP1 antibody; Lane 1: RT4 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-STRIP1 antibody in RT4 whole cell lysate; Lane 3: anti-STRIP1 antibody (2ug) + RT4 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-STRIP1 antibody at a dilution of 0.5 ug/ml and probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using ECL Plus Western Blotting Substrate. The expected molecular weight of STRIP1 is at 96 kDa.



Flow Cytometry analysis of SH-SY5Y cells using anti-STRIP1 antibody. Overlay histogram showing SH-SY5Y cells stained with (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-STRIP1 antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Immunohistochemical staining of STRIP1 using anti-STRIP1 antibody. STRIP1 was detected in a paraffin-embedded section of human brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-STRIP1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.

Description

STRIP1 antibody detects Striatin-interacting protein 1, a core component of the STRIPAK complex that integrates signaling, cytoskeletal organization, and cell migration. STRIP1 acts as a scaffold linking the PP2A phosphatase complex with kinases, adaptors, and actin-regulating proteins. The STRIP1 antibody is widely used in cell signaling, neurobiology, and cancer research to study cytoskeletal remodeling, phosphatase signaling, and morphogenesis.

STRIP1 is encoded by the STRIP1 gene located on human chromosome 3q22.1. The protein is approximately 837 amino acids long and forms stable interactions with striatin, PP2A, MOB4, and kinases of the GCKIII family. STRIP1 localizes to both cytoplasmic and cortical compartments, particularly in regions of actin remodeling and cell junctions.

The STRIP1 antibody detects a 95 kilodalton protein by western blot and exhibits perinuclear and cortical staining by immunofluorescence microscopy. STRIP1 regulates the activity of PP2A-dependent phosphatase signaling pathways that control cell polarity, adhesion, and migration. It acts in concert with STRN3 and STRN4 to modulate kinases such as STK24 and STK25, thereby maintaining cytoskeletal balance and tissue architecture.

Disruption of STRIP1 impairs cell migration and polarity, leading to developmental abnormalities and cancer metastasis. Studies show that loss of STRIP1 alters actin stress fiber organization and cell junction stability, while overexpression promotes invasive behavior in tumor cells. In neurons, STRIP1 contributes to dendritic spine morphogenesis and synaptic plasticity through modulation of PP2A and Rho GTPase signaling.

Because STRIP1 functions as a molecular integrator connecting phosphatase signaling with cytoskeletal regulation, it serves as a crucial factor in understanding morphogenesis and disease progression. NSJ Bioreagents provides a validated STRIP1 antibody optimized for its applications, supporting research into cytoskeletal dynamics, PP2A signaling, and cancer biology.

Application Notes

Optimal dilution of the STRIP1 antibody should be determined by the researcher.

Immunogen

E.coli-derived human STRIP1 recombinant protein (Position: E93-Q511) was used as the immunogen for the STRIP1 antibody.

Storage

After reconstitution, the STRIP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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