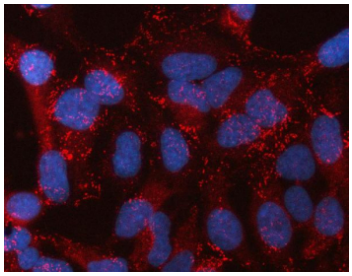
STON2 Antibody / Stonin 2 (RQ8932)

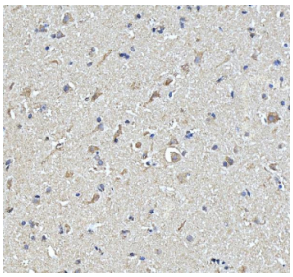
Catalog No.	Formulation	Size
RQ8932	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

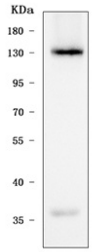
Availability	1-2 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8WXE9
Localization	Cytoplasm, nucleus
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This STON2 antibody is available for research use only.



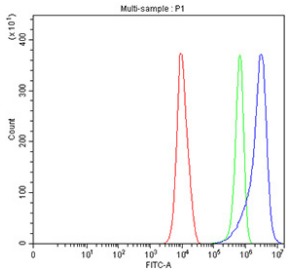
Immunofluorescent staining of FFPE human HeLa cells with STON2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human brain tissue with STON2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human K562 cell lysate with STON2 antibody. Predicted molecular weight ~101 kDa but is often observed at ~130 kDa.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with STON2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= STON2 antibody.

Description

STON2 (Stonin 2) is a member of the stonin protein family, which plays an important role in clathrin-mediated endocytosis. It functions as an adaptor protein that interacts with components of the endocytic machinery, including clathrin and adaptor protein complexes, to facilitate the internalization of synaptic vesicle proteins and receptors. By regulating vesicle recycling, STON2 contributes to synaptic transmission and receptor turnover. Researchers often use a STON2 antibody to study endocytosis, neuronal signaling, and membrane trafficking.

STON2 contains multiple protein interaction motifs, including proline-rich domains and endocytic sorting signals, which allow it to engage with dynamin and AP-2 complex subunits. These interactions position STON2 as a bridge between cargo proteins and the vesicle formation machinery. Employing a STON2 antibody enables the investigation of how this adaptor protein regulates cargo selection and vesicle budding in both neuronal and non-neuronal systems.

Disruption of STON2 function has been linked to neurological and psychiatric conditions, as defects in synaptic vesicle recycling can impair neurotransmission. In addition, STON2 has been implicated in receptor internalization pathways outside the nervous system, suggesting broader roles in endocytic regulation. Studying STON2 with a STON2 antibody provides valuable insights into how defects in endocytosis contribute to disease mechanisms and may highlight potential therapeutic targets.

NSJ Bioreagents provides a high-quality STON2 antibody validated for applications including western blot, immunohistochemistry, and immunofluorescence. Choosing a STON2 antibody from NSJ Bioreagents ensures reliable performance and reproducibility in studies of clathrin-mediated endocytosis, synaptic biology, and receptor regulation.

Application Notes

Optimal dilution of the STON2 antibody should be determined by the researcher.

Immunogen

Amino acids L4-K855 from the human protein were used as the immunogen for the STON2 antibody.

Storage

After reconstitution, the STON2 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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