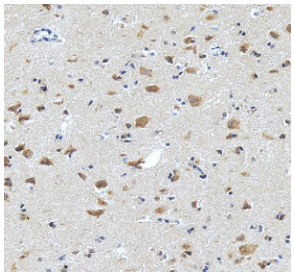
Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody (RQ8174)

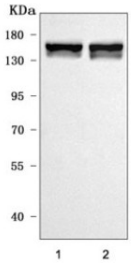
Catalog No.	Formulation	Size
RQ8174	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

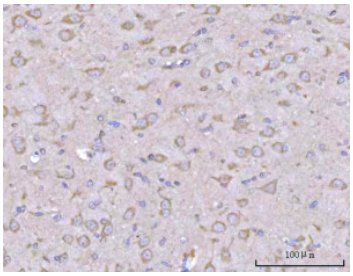
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75334
RRID	AB_3752874
Localization	Cytoplasm, cell surface
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody is available for research use only.



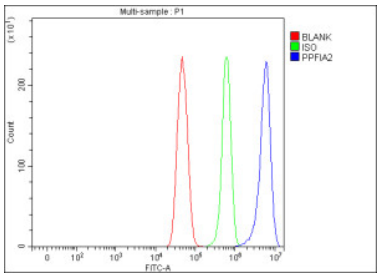
Liprin alpha 2 Antibody Human Brain IHC. Immunohistochemistry analysis of FFPE human brain tissue using Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody. Heat mediated antigen retrieval was performed using pH 8 EDTA buffer, and the tissue section was incubated with the primary antibody at 2 ug/ml overnight at 4Â°C. HRP-conjugated secondary antibody and DAB substrate were used for detection. Cytoplasmic staining is observed in neuronal cells, supporting the use of Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody for studying synaptic scaffold protein expression, neuronal signaling and presynaptic organization pathways.



Liprin alpha 2 Antibody Rat and Mouse Brain WB. Western blot analysis of rat brain and mouse brain tissue lysates using Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody. Lane 1: rat brain; Lane 2: mouse brain. A specific band is detected at approximately 143 kDa, consistent with the predicted molecular weight of Liprin alpha 2. These results support the use of Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody for studying synaptic scaffold protein expression, presynaptic organization and neuronal signaling pathways in brain tissue.



Liprin alpha 2 Antibody Rat Brain IHC. Immunohistochemistry analysis of FFPE rat brain tissue using Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody. Heat induced antigen retrieval was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes prior to staining. Cytoplasmic and neuronal staining is observed within brain tissue, consistent with the role of Liprin alpha 2 in synaptic organization and neuronal signaling. These results support the use of Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody for studying synaptic scaffold proteins, presynaptic regulation and nervous system function.



Flow cytometry testing of fixed and permeabilized human U-251 cells with Liprin alpha 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Liprin alpha 2 antibody.

Description

Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody detects a neuronal scaffolding protein encoded by the PPFIA2 gene. Liprin alpha 2 belongs to the liprin family of adaptor proteins that interact with leukocyte common antigen-related (LAR) receptor protein tyrosine phosphatases and other synaptic regulatory proteins. It contains coiled-coil regions and sterile alpha motif domains that support the assembly of multi-protein complexes involved in neuronal communication. Liprin alpha 2 is highly associated with synaptic organization, where it contributes to the formation and maintenance of specialized structures required for efficient neurotransmission.

Liprin alpha 2 plays an important role in presynaptic active zone development by helping organize proteins involved in synaptic vesicle positioning, release and signaling. Through interactions with additional scaffold proteins, adhesion molecules and signaling regulators, Liprin alpha 2 contributes to the molecular architecture that allows neurons to establish and maintain functional connections. A Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody is useful for researchers studying synapse formation, neuronal development and mechanisms controlling communication between nerve cells.

Research into PPFIA2 function has highlighted the importance of synaptic scaffold networks in nervous system biology. Liprin alpha proteins help coordinate interactions between cell adhesion pathways and intracellular signaling complexes, supporting processes such as axon guidance, synaptic maturation and neuronal connectivity. Changes in synaptic organization and protein interaction networks are areas of interest in studies examining neurological function, brain development and mechanisms underlying altered neuronal communication.

Beyond its role at the synapse, Liprin alpha 2 is part of a broader family of proteins involved in organizing cellular architecture through protein-protein interactions. These scaffolding functions allow cells to regulate the localization and activity of signaling components within specialized regions. Because neuronal cells rely on precise spatial organization of molecular complexes, Liprin alpha 2 remains an important target for investigating synaptic structure, signaling regulation

and nervous system function.

NSJ Bioreagents offers Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody products for researchers studying neuronal proteins, synapse biology and intracellular signaling complexes. These antibodies support applications such as Western blot, immunohistochemistry and immunofluorescence analysis of Liprin alpha 2 expression and localization. Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody provides a valuable tool for examining presynaptic organization, neuronal connectivity and synaptic scaffold protein function.

Explore additional neuronal signaling research tools in our Neuroscience Antibodies page, including targets involved in synaptic organization, neurotransmission and nervous system development.

Application Notes

Optimal dilution of the Liprin alpha 2 Antibody / Synaptic Scaffold Protein Antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E221-C1257) was used as the immunogen for the Liprin alpha 2 antibody.

Storage

After reconstitution, the Liprin alpha 2 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

PPFIA2 antibody, Liprin-alpha-2 antibody, LAR Interacting Protein 2 antibody, Protein Tyrosine Phosphatase Receptor Type F Interacting Protein Alpha 2 antibody, PTPRF Interacting Protein Alpha 2 antibody, Synaptic Scaffold Protein antibody

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