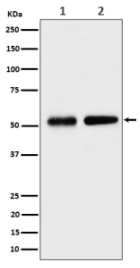
SEPTIN8 Antibody / Septin 8 [clone 30S14] (FY13263)

Catalog No.	Formulation	Size
FY13263	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30S14
Purity	Affinity chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q92599
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry : 1:50-1:200 Immunocytochemistry/Immunofluorescence : 1:50-1:200 Immunoprecipitation : 1:50 Flow Cytometry : 1:50
Limitations	This SEPTIN8 antibody is available for research use only.



Western blot analysis of Septin 8 expression in (1) human HeLa cell lysate; (2) mouse NIH 3T3 cell lysate using SEPTIN8 antibody. Predicted molecular weight ~56 kDa.

Description

SEPTIN8 antibody detects Septin 8, encoded by the SEPTIN8 gene. Septin 8 is a member of the septin family of GTP binding cytoskeletal proteins involved in cytokinesis, vesicle trafficking, and cellular morphogenesis. SEPTIN8 antibody provides researchers with a specific reagent to study cytoskeletal organization, cell division, and neuronal development.

Septins form hetero oligomeric complexes that polymerize into filaments and higher order structures. Research using SEPTIN8 antibody has shown that Septin 8 contributes to filament assembly, acting as a structural scaffold at the plasma membrane and division sites. Septin complexes coordinate with actin and microtubules to regulate cell polarity and compartmentalization, ensuring proper cell division and morphogenesis.

In neurons, Septin 8 plays roles in dendritic branching and synapse formation. Studies with SEPTIN8 antibody have demonstrated that it localizes to dendritic spines and regulates cytoskeletal rearrangements required for synaptic plasticity. Dysregulation of Septin 8 expression or function may impair neural connectivity and contribute to neurological disorders.

Septin dysregulation has been linked to cancer and neurodegeneration. Research using SEPTIN8 antibody has revealed that abnormal expression influences cell cycle progression, apoptosis, and tumor growth. In the nervous system, altered Septin 8 activity has been associated with psychiatric and developmental disorders, reflecting its importance in synaptic regulation and cytoskeletal dynamics.

SEPTIN8 antibody is applied in western blotting, immunohistochemistry, and immunofluorescence. Western blotting identifies endogenous protein levels, immunohistochemistry highlights expression in proliferative tissues, and immunofluorescence demonstrates cytoskeletal localization. These applications make SEPTIN8 antibody a versatile reagent in cytoskeletal and neuronal research.

By supplying validated SEPTIN8 antibody reagents, NSJ Bioreagents supports studies into cytoskeletal organization, neuronal development, and disease biology. Detection of Septin 8 provides insight into how septin family proteins regulate essential cellular processes.

Application Notes

Optimal dilution of the SEPTIN8 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Septin 8 was used as the immunogen for the SEPTIN8 antibody.

Storage

Store the SEPTIN8 antibody at -20oC.