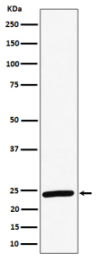
RAB8A Antibody / Ras related protein Rab 8A [clone 29R94] (FY12883)

Catalog No.	Formulation	Size
FY12883	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	29R94
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	P61006
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunocytochemistry/Immunofluorescence: 1:50-1:200 Flow Cytometry: 1:50
Limitations	This RAB8A antibody is available for research use only.



Western blot analysis of RAB8A expression in human HeLa cell lysate using RAB8A antibody. Predicted molecular weight ~24 kDa.

Description

RAB8A antibody recognizes Ras related protein Rab 8A, a small GTP binding protein encoded by the RAB8A gene. RAB8A belongs to the Rab family of small GTPases, which regulate vesicular transport, endocytosis, and exocytosis. This protein plays a critical role in polarized membrane trafficking, cytoskeletal dynamics, and ciliogenesis. Researchers use RAB8A antibody to explore the regulatory mechanisms underlying intracellular transport and how disruptions can lead to disease.

Ras related protein Rab 8A cycles between an inactive GDP bound state and an active GTP bound state, allowing it to coordinate vesicle budding, transport, and fusion events. Active RAB8A recruits specific effector proteins that drive trafficking of vesicles to the plasma membrane, supporting processes such as neurite outgrowth, epithelial polarization, and secretion. Studies using RAB8A antibody have shown its localization to recycling endosomes and the Golgi network, highlighting its role in maintaining polarized trafficking routes in diverse cell types.

Disruption of RAB8A function is linked to ciliopathies and neurodegenerative conditions. RAB8A regulates ciliary membrane extension and signaling, making it critical for developmental pathways such as Hedgehog signaling. Defective Rab protein regulation has also been implicated in Parkinson disease, where altered endocytic recycling and trafficking impair neuronal health. Detection with RAB8A antibody provides valuable insights into these disease mechanisms and offers a tool for studying how vesicular trafficking contributes to pathophysiology.

RAB8A antibody is applied in western blotting, immunofluorescence, and immunohistochemistry. Western blotting detects expression in a range of tissues, while immunofluorescence reveals localization to endosomal compartments and the base of primary cilia. Immunohistochemistry further shows distribution in brain, kidney, and epithelial tissues, correlating with its functional roles. Functional assays using RAB8A antibody can track changes in expression following experimental perturbations of membrane trafficking pathways.

By supplying validated RAB8A antibody reagents, NSJ Bioreagents supports research on vesicular trafficking, ciliary function, and neurological disease, ensuring high quality detection of Ras related protein Rab 8A in experimental systems.

Application Notes

Optimal dilution of the RAB8A antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human RAB8A was used as the immunogen for the RAB8A antibody.

Storage

Store the RAB8A antibody at -20oC.

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