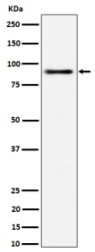
ACAP2 Antibody / ArfGAP with coiled-coil ankyrin repeat and PH domains 2 [clone 30A18] (FY12131)

Catalog No.	Formulation	Size
FY12131	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	30A18
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	Q15057
Applications	Western blot: 1:500-1:2000
Limitations	This ACAP2 antibody is available for research use only.



Western blot analysis of ACAP2 expression in 293 cell lysate using ACAP2 antibody.

Description

ACAP2 antibody detects ArfGAP with coiled-coil, ankyrin repeat, and PH domains 2, a GTPase-activating protein that regulates ADP-ribosylation factor 6 (ARF6). ACAP2 controls membrane trafficking and actin cytoskeleton remodeling by

accelerating the hydrolysis of ARF6-bound GTP. Through these functions, ACAP2 coordinates processes such as endocytosis, recycling, and cell migration.

Research using ACAP2 antibody demonstrates its role in neuronal and immune cell biology. In neurons, ACAP2 regulates dendritic spine development and axon guidance by modulating actin remodeling. In immune cells, ACAP2 contributes to receptor trafficking and migration, influencing both innate and adaptive responses. Dysregulation of ACAP2 has been associated with impaired immune function and altered neuronal connectivity.

ACAP2 is also studied in cancer and viral infections. Tumor cells exploit ARF6 signaling pathways to promote invasion and metastasis, and ACAP2 acts as a regulator of this activity. Reduced ACAP2 expression can enhance ARF6-mediated oncogenic signaling. Viral pathogens, including some RNA viruses, utilize ARF6 and its regulators to facilitate replication and budding, suggesting ACAP2 may indirectly impact host-pathogen interactions.

Antibodies against ACAP2 are validated for western blot, immunofluorescence, and immunohistochemistry. These reagents allow researchers to investigate protein localization, expression levels, and interactions with ARF6 and related molecules. Clone-based antibodies provide specificity to ensure consistent results across experimental systems.

NSJ Bioreagents supplies this ACAP2 antibody for studies in membrane trafficking, cytoskeletal regulation, and signaling pathways.

Application Notes

Optimal dilution of the ACAP2 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human ACAP2 was used as the immunogen for the ACAP2 antibody.

Storage

Store the ACAP2 antibody at -20oC.

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