

Recombinant Human Ras-related protein Rab-11A(RAB11A)

Catalog No: #AP70692

Package Size: #AP70692-1 20ug #AP70692-2 100ug #AP70692-3 1mg

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Description

Product Name	Recombinant Human Ras-related protein Rab-11A(RAB11A)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-213aaSequence Info:Full Length
Other Names	YL8
Accession No.	P62491
Calculated MW	39.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	GTRDDEYDYLKVVLIIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDTAGQERYRAI TSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVMLVGKSDLRHLRAVPTDEARAFKNGLSF IETSALDSTNVEAAFQITLTIYRIVSQKQMSDRRENDMSPSNNVPIHVPPTTENKPKVQCC
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

The small GTPases Rab are key regulators of intracellular mbrane trafficking, from the formation of transport vesicles to their fusion with mbranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to mbranes different set of downstream effectors directly responsible for vesicle formation, movent, tethering and fusion. That Rab regulates endocytic recycling. Acts as a major regulator of mbrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical mbrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B participates in CFTR trafficking to the plasma mbrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma mbrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma mbrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral mbranes. May also play a role in melanosome transport and release from melanocytes.

References

Identification and characterization of a human homolog of the Schizosaccharomyces pombe ras-like gene YPT-3.Divas G.T., Shih A., Coutavas E.E., D'Eustachio P., Rush M.G.Oncogene 6:3-9(1991)Research Topic:Cancer

Note: This product is for in vitro research use only and is not intended for use in humans or animals.