

# Recombinant Human Ras-related protein Rab-31(RAB31)

Catalog No: #AP76966

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Package Size: #AP76966-1 20ug #AP76966-2 100ug #AP76966-3 1mg

## Description

Product Name	Recombinant Human Ras-related protein Rab-31(RAB31)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-194aaSequence Info:Full Length
Other Names	Ras-related protein Rab-22B
Accession No.	Q13636
Uniprot	Q13636
GeneID	11031;
Calculated MW	48.6 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MAIRELKVCLLGDTGVGKSSIVCRFVQDHFHDHNISPTIGASFMTKTVPCGNELHKFLIWDTAGQERFHSLAPMY YRGSAAAVIVYDITKQDSFYTLKKWVKELKEHGPENIVMAIAGNKCDLSDIREVPLKDAKEYAESIGAIVVETSA KNAINIEELFQGISRQIPPLDPHENGNGTIKVEKPTMQASRRCC
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 membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. Required for the integrity and for normal function of the Golgi apparatus and the trans-Golgi network. Plays a role in insulin-stimulated translocation of GLUT4 to the cell membrane. Plays a role in M6PR transport from the trans-Golgi network to endosomes. Plays a role in the internalization of EGFR from the cell membrane into endosomes. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis.

## References

"Molecular cloning of two novel rab genes from human melanocytes."

Chen D., Guo J., Miki T., Tachibana M., Gahl W.A.

Gene 174:129-134(1996)Research Topic:Signal Transduction

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Note: This product is for in vitro research use only