

## Rab4A(Q67L) Mutant

**Catalog Number:** 10131

**Synonyms:** Member RAS oncogene family, RAB4, HRES-1/RAB4

**Background:** The Rab family of Ras-related GTP-binding protein Rab4 is involved in bidirectional sarcolemmal-vesicular Adrb2 trafficking, which occurs continuously in healthy hearts and is necessary for normal baseline adrenergic responsiveness and resensitization after catecholamine exposure.

**Amino Acid Sequence:** (1-213, Q67L)

MSETYDFLFKFLVIGNAGTGKSCLLHQFIEKKFKD  
DSNHTIGVEFGSKIINVGGKYVKLQIWDTAGLERF  
RSVTRSYYRGAAGALLVYDITSRETYNALTNWLT  
DARMLASQNIVIIICGNKKDLADREVTFLASRF  
AQENELMFLETSALTGENVEEAFVQCARKILNKIE  
SGELDPERMGSGIQYGDAALRQLRSPRAQAPN  
AQECGC

**Source:** Human, recombinant full length, His6-tag

**Expression Host:** E. coli

**Molecular Weight:** 24 kDa

**Purity:** >99% by SDS-PAGE

**Constituents:** 20 mM Tris-HCl, pH8.0, 150 mM NaCl.

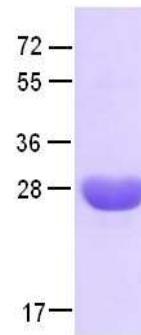
**Physical Appearance:** White or clear

**Concentration:** 1 mg/mL

**Storage:** -80°C

### Preparation Instructions

Adding of 10 mM  $\beta$ -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl  $\beta$ -D-maltoside (DoDM) or polyethylene detergents (e.g., C<sub>12</sub>E<sub>10</sub>) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Rab4A Q67L was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

### References

1. Barbosa, M. D. F. S. et al., Genomics 30:439-444, 1995.
2. Odley, A. et al., Proc. Nat. Acad. Sci. 101: 7082-7087, 2004.
3. Rousseau-Merck, M.-F. et al., Hum. Genet. 86: 350-354, 1991.
4. Zahraoui, A. et al., J. Biol. Chem. 264: 12394-12401, 1989

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