

## RAB11 PROTEIN

### Rab11 Protein

**Cat. #:** 10126

**Product Name:** Rab11 Protein

**Synonyms:** Rab-protein 11, CG5771, DmRab11, Drab11, Rab-r11, RAB11

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

**Expression Host Species:** E. coli

**Molecular Weight:** 18 kDa

**Purity:** >95% by SDS-PAGE

**Introduction:** Rab11 is a small GTP-binding proteins of the Rab family, such as Rab11A, play essential roles in vesicle and granule targeting. Rab11 is also a GTPase that regulates endosomal trafficking to apical plasma membrane domains in polarized epithelial cells.

**Amino Acid Sequence** (1-173)

**MGTRDDEYDYLFKVVLLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDT  
AGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVMLVGNKSDLRHLRAV  
PTDEARFAEKNGLSFIETSALDSTNVEAAFQILTEIY**

### Properties

**Physical Appearance (form):** Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

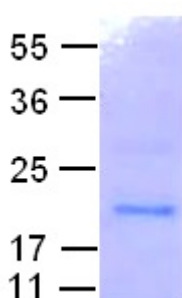
**Physical Appearance (form):** White or clear

**Concentration:** 1 mg/mL

**Storage:** -80°C

### Preparation Instructions:

Centrifuge the vial before open the cap and reconstitute in water. 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. C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution. The purity of His-tagged Rab11 was determined by SDS- PAGE and Coomassie Brilliant Blue Staining.



### References:

1. Bao, X. et al., *Europ. J. Biochem.* 269: 259-271, 2002.

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3. Casanova, J. E. et al., Molec. Biol. Cell 10: 47–61, 1999.
4. Drivas, G. T. et al., Oncogene 6: 3–9, 1991.
5. Gromov, P. S. et al., FEBS Lett. 429: 359–364, 1998.
6. Guichard, A. et al., Nature 467: 854–858, 2010.
7. Larance, M. et al., J. Biol. Chem. 280: 37803–37813, 2005.
8. Shirane, M. et al., Science 314: 818–821, 2006.