

**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

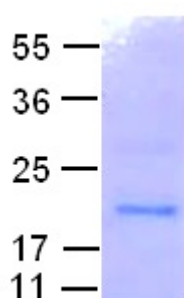
**Introduction:** Rab11 is a small GTP-binding proteins of the Rab family, such as Rab11A, play essential roles in vesicle and granule targeting. Rab11 is also a GTPase that regulates endosomal trafficking to apical plasma membrane domains in polarized epithelial cells.

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

MGTRDDEYDYLFKVVVLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDT  
AGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVIMLVGNKSDLRHLRAV  
PTDEARAFAEKNGLSFIETSALDSTNVEAAFQILTEIY

**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.

2. Gromov, P. S. et al., FEBS Lett. 429: 359-364, 1998.
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.