

Rab7

Catalog Number: 10167

Synonyms: Member RAS oncogene family, Rab7a, MGC102153

Background: Members of the Rab family of Ras-related GTP-binding proteins are important regulators of vesicular transport and are located in specific intracellular compartments. Rab7 has been localized to late endosomes and shown to be important in the late endocytic pathway. In addition, it has been shown to have a fundamental role in the cellular vacuolation induced by the cytotoxin VacA of *Helicobacter pylori*.

Amino Acid Sequence: (1-207)

MTSRKKVLLKVILGDSGVGKTSMLNQYVNNKFS
NQYKATIGADFLTKEVMVDDRLVTMQIWDTAGQ
ERFQSLGVAFYRGADCCVLVFDVTAPNTFKTLDS
WRDEFLIQASPRDPENFPFVVLGNKIDLENRQVAT
KRAQAWCYSKNNIPYFETSAKEAINVEQAFQTIA
RNALKQETEVELYNEFPEPIKLDKNDRAKASAES
CSC

Source: Human, recombinant full length, His6-tag

Expression Host: E. coli

Molecular Weight: 23 kDa

Purity: > 99% by SDS-PAGE

Constituents: 20 mM Tris-HCl,
pH 8.0, 150 mM NaCl.

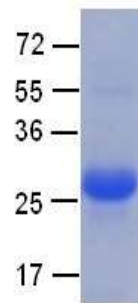
Physical Appearance: White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM β -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β -D-maltoside (DoDM) or polyethylene detergents (e.g. C₁₂E₁₀) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Rab7 was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. Edinger, A. L. et al., Dev. Cell 5: 571-582, 2003.
2. Houlden, H. et al., Ann. Neurol. 56: 586-590, 2004.
3. Meggouh, F. et al., Neurology 67: 1476-1478, 2006.
4. Rak, A. et al., Cell 117: 749-760, 2004.
5. Verhoeven, K. et al., Am. J. Hum. Genet. 72: 722-727, 2003.

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