

RAB5 PROTEIN, Δ N15

Rab5(Δ N15) Protein

Cat. #: 10116

Product Name: Rab5 Protein

Synonyms: Member RAS oncogene family, RAB5A

Source: Human, recombinant full length, His6-tag

Expression Host Species: E. coli

Molecular Weight: 17 kDa

Purity: >95% by SDS-PAGE

Introduction: Rab5, consists of three isoforms, Rab5A, Rab5B, and Rab5C, is a small GTPase that is localized to early endosomes. It regulates the fusion between endocytic vesicles and early endosomes, as well as the homotypic fusion between early endosomes.

Amino Acid Sequence (16-184)

**NKICQFKLVLLGESAVGKSSLVLRVFKGQFHEFQESTIGAAFLTQTVCLDDTTVKFEIWDTAGQERY
HSLAPMYRGAQA AIVVYDITNEESFARAKNWKELQRQASPNIVIALSGNKADLANKRAVDFQEAQ
SYADDNSLLFMETSAKTSMNVNEIFMAIAKKLPKN**

Properties

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

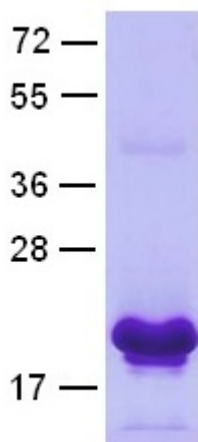
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions:

Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM 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 after reconstitution. The purity of His-tagged Rab5 was determined by SDS- PAGE and Coomassie Brilliant Blue Staining



References:

1. Bucci, C. et al., *Cell* 70: 715-728, 1992.
2. Kinchen, J. M. et al., *Nature* 464: 778-782, 2010.
3. Kitano, M. et al., *Nature* 453: 241-245, 2008.
4. Lanzetti, L. et al., *Nature* 429: 309-314, 2004.
5. Lanzetti, L. et al., *Nature* 408: 374-377, 2000.
6. Miaczynska, M. et al., *Cell* 116: 445-456, 2004.
7. Ohya, T. et al., *Nature* 459: 1091-1097, 2009.
8. Otomo, A. et al., *Hum. Molec. Genet.* 12: 1671-1687, 2003.
9. Rousseau-Merck, M. F. et al., *Hum. Genet.* 86: 350-354, 1991.
10. Stenmark, H. et al., *Cell* 83: 423-432, 1995.
11. Xiao, G.-H. et al., *J. Biol. Chem.* 272: 6097-6100, 1997.
12. Zahraoui, A. et al., *J. Biol. Chem.* 264: 12394-12401, 1989.