

RAB27B Protein, Human (HEK293, His)

Cat. No.:	HY-P75995
Synonyms:	Ras-related protein Rab-27B; C25KG; RAB27B
Species:	Human
Source:	HEK293
Accession:	O00194 (T2-K215)
Gene ID:	5874
Molecular Weight:	Approximately 29 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	RAB27B, a small GTPase, undergoes dynamic cycling between its active GTP-bound and inactive GDP-bound states, exerting regulatory control over the late endocytic pathway's homeostasis. In its active state, RAB27B engages with a diverse set of effector proteins, contributing to the coordination of endosomal positioning, maturation, and secretion processes. Notably, it plays a crucial role in facilitating the axonal anterograde transport of NTRK2/TRKB by promoting the association of NTRK2/TRKB with KLC1. Additionally, RAB27B may participate in the targeting of uroplakins to urothelial apical membranes, suggesting its involvement in specialized membrane trafficking events.
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Caution: Product has not been fully validated for medical applications. For research use only.

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