Recombinant RAB6B protein (His tag)

Catalog Number	546048
Species	Human
Expression System	E. coli
Accession	Q9NRW1
Molecular Weight	Predictes a molecular mass of 21.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-176
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-176 aa (Q9NRW1) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Ras-related protein Rab-6B (EC 3.6.5.2) fragment (residues 1-176) is a high-quality, stable protein designed for structural and biochemical studies. This fragment captures a soluble, functional unit of Rab-6B, a key regulator of intracellular membrane trafficking, making it ideal for investigating Golgi dynamics and vesicular transport mechanisms. Ras-related protein Rab-6B is a small GTPase that plays a critical role in intracellular membrane trafficking by cycling between active GTP-bound and inactive GDP-bound states. It regulates vesicular transport from donor to acceptor organelles, maintaining Golgi apparatus morphology and identity. Rab-6B recruits VPS13B to the Golgi membrane and is involved in retrograde membrane traffic at the Golgi complex, particularly in neuronal cells, where it contributes to neuron projection development. The protein is localized to the Golgi apparatus membrane, endoplasmic reticulum-Golgi intermediate compartment, and cytoplasmic vesicles, often associating with microtubule-aligned structures. Its functions are supported by interactions with proteins like BICD1, highlighting its importance in cellular organization and trafficking pathways.