Recombinant RAB2B protein (His tag)

Catalog Number	545552
Species	Human
Expression System	E. coli
Accession	Q8WUD1
Molecular Weight	Predictes a molecular mass of 25.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-216
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-216 aa (Q8WUD1) 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-2B (EC 3.6.5.2) fragment (amino acids 1-216) is a high-purity, stable protein designed for structural and biochemical studies. This fragment encompasses the full-length functional domain of Rab-2B, offering researchers a reliable tool to investigate intracellular membrane trafficking, Golgi morphology regulation, and innate immune signaling pathways. Ras-related protein Rab-2B is a small GTPase that serves as a key regulator of intracellular membrane trafficking, cycling between active GTP-bound and inactive GDP-bound states to mediate vesicle formation, transport, and fusion. It maintains Golgi apparatus morphology and promotes cytosolic DNA-induced innate immune responses by regulating the CGAS-STING signaling axis. Rab-2B also functions redundantly with RAB2A in supporting efficient autophagic flux. The protein localizes to multiple cellular membranes, including the cell membrane, endoplasmic reticulum, Golgi apparatus, secretory vesicles, and autophagosomes, where it is anchored via lipid modifications on the cytoplasmic side. This strategic localization underscores its critical role in organelle identity and membrane dynamics.