

Product datasheet for PH303973

OriGene Technologies, Inc.

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RAB3A (NM 002866) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: RAB3A MS Standard C13 and N15-labeled recombinant protein (NP_002857)

Species: Human **HEK293 Expression Host:**

Expression cDNA Clone or AA Sequence:

RC203973

Predicted MW: 25 kDa

>RC203973 protein sequence **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MASATDSRYGQKESSDQNFDYMFKILIIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFKVKTIYRNDKR IKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITNEESFNAVQDWSTQIKTYSWDNAQVLLVGNKCDME DERVVSSERGRQLADHLGFEFFEASAKDNINVKQTFERLVDVICEKMSESLDTADPAVTGAKQGPQLSDQ

QVPPHQDCAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 002857

RefSeq Size: 1528 RefSeq ORF: 660 Locus ID: 5864

UniProt ID: P20336, A0A024R7I7

Cytogenetics: 19p13.11





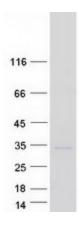
Summary:

Small GTP-binding protein that plays a central role in regulated exocytosis and secretion. Controls the recruitment, tethering and docking of secretory vesicles to the plasma membrane (By similarity). Upon stimulation, switches to its active GTP-bound form, cycles to vesicles and recruits effectors such as RIMS1, RIMS2, Rabphilin-3A/RPH3A, RPH3AL or SYTL4 to help the docking of vesicules onto the plasma membrane (By similarity). Upon GTP hydrolysis by GTPase-activating protein, dissociates from the vesicle membrane allowing the exocytosis to proceed (By similarity). Stimulates insulin secretion through interaction with RIMS2 or RPH3AL effectors in pancreatic beta cells (By similarity). Regulates calcium-dependent lysosome exocytosis and plasma membrane repair (PMR) via the interaction with 2 effectors, SYTL4 and myosin-9/MYH9 (PubMed:27325790). Acts as a positive regulator of acrosome content secretion in sperm cells by interacting with RIMS1 (PubMed:22248876, PubMed:30599141). Plays also a role in the regulation of dopamine release by interacting with synaptotagmin I/SYT (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome

Product images:



Coomassie blue staining of purified RAB3A protein (Cat# [TP303973]). The protein was produced from HEK293T cells transfected with RAB3A cDNA clone (Cat# [RC203973]) using MegaTran 2.0 (Cat# [TT210002]).