

## Product datasheet for PH303873

### Rab5 (RAB5A) (NM\_004162) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RAB5A MS Standard C13 and N15-labeled recombinant protein (NP_004153)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203873
Predicted MW:	23.7 kDa
Protein Sequence:	>RC203873 protein sequence Red=Cloning site Green=Tags(s)  MASRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRVFKGQFHEFQESTIGAAFLTQTVCLDDTTVK FEIWDTAGQERYHSLAPMYRGAQAIVVYDITNEESFARAKNWVKELQRQASPNIVIALSGNKADLANK RAVDFQEAQSYADDNSLLFMETSAKTSMNVNEIFMAIAKKLPKNEPQNPNGANSARGRVDLLEPTQPTRN QCCSN  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004153</a>
RefSeq Size:	2548
RefSeq ORF:	645
Synonyms:	RAB5
Locus ID:	5868
UniProt ID:	<a href="#">P20339</a> , <a href="#">A0A024R2K1</a>



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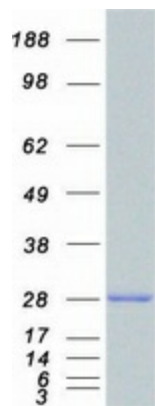
**Cytogenetics:** 3p24.3

**Summary:** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Endocytosis

### Product images:



Coomassie blue staining of purified RAB5A protein (Cat# [TP303873]). The protein was produced from HEK293T cells transfected with RAB5A cDNA clone (Cat# [RC203873]) using MegaTran 2.0 (Cat# [TT210002]).