

## Product datasheet for **TP303873L**

### Rab5 (RAB5A) (NM\_004162) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human RAB5A, member RAS oncogene family (RAB5A), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC203873 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MASRGATRPNGPNTGNKICQFKLVLLGESAVGKSSVLRFVKGFHEFQESTIGAAFLTQTVCLDDTTVK  
FEIWDTAGQERYHSLAPMYRGAQAAIVVYDITNEESFARAKNWWKELQRQASPNIVIALSGNKADLANK  
RAVDFQEAQSYADDNSLLFMETSAKTS MNVNEIFMAIAKKLPKNEPQNPGANSARGRGVDLTEPTQPTRN  
QCCSN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 23.5 kDa

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

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_004153](#)

**Locus ID:** 5868

**UniProt ID:** [P20339](#), [A0A024R2K1](#)



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RefSeq Size: 2548

Cytogenetics: 3p24.3

RefSeq ORF: 645

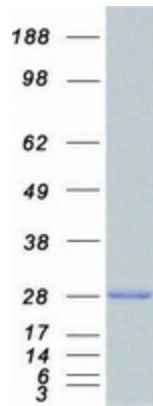
Synonyms: RAB5

**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]).