

Product datasheet for TP502190

Rab7 (NM_009005) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of Mouse RAB7, member RAS oncogene family (Rab7), with Cterminal MYC/DDK tag, expressed in HEK293T cells, 20ug Species: Mouse **Expression Host:** HEK293T **Expression cDNA Clone** >MR202190 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s) MTSRKKVLLKVIILGDSGVGKTSLMNQVVNKKFSNQYKATIGADFLTKEVMVDDRLVTMQIWDTAGQERF QSLGVAFYRGADCCVLVFDVTAPNTFKTLDSWRDEFLIQASPRDPENFPFVVLGNKIDLENRQVATKRAQ AWCYSKNNIPYFETSAKEAINVEQAFQTIARNALKQETEVELYNEFPEPIKLDKNDRAKASAESCSC **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** Tag: C-MYC/DDK Predicted MW: 23.5 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method > 80% as determined by SDS-PAGE and Coomassie blue staining Purity: **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C after receiving vials. Storage: Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. NP 033031 RefSeq: Locus ID: 19349 **UniProt ID:** P51150 **RefSeq Size:** 2173 Cytogenetics: 6 39.13 cM



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	Rab7 (NM_009005) Mouse Recombinant Protein – TP502190
RefSeq ORF:	621
Synonyms:	Rab7a
Summary:	Key regulator in endo-lysosomal trafficking. Governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosomal migration and positioning, and endosome-lysosome transport through different protein-protein interaction cascades. Plays a central role, not only in endosomal traffic, but also in many other cellular and physiological events, such as growth-factor-mediated cell signaling, nutrient-transportor mediated nutrient uptake, neurotrophin transport in the axons of neurons and lipid metabolism. Also involved in regulation of some specialized endosomal membrane trafficking, such as maturation of melanosomes, pathogen-induced phagosomes (or vacuoles) and autophagosomes. Plays a role in the maturation and acidification of phagosomes that engulf pathogens, such as S.aureus and Mycobacteria. Plays a role in the fusion of phagosomes with lysosomes. Plays important roles in microbial pathogen infection and survival, as well as in participating in the life cycle of viruses. Microbial pathogens possess survival strategies governed by RAB7A, sometimes by employing RAB7A function (e.g. Salmonella) and sometimes by excluding RAB7A function of RBs (ruffled borders) in osteoclasts. Controls the endosomal trafficking and neurite outgrowth signaling of NTRK1/TRKA. Regulates the endocytic trafficking of the EGF-EGFR complex by regulating its lysosomal degradation (By similarity). Involved in the ADRB2-stimulated lipolysis through lipophagy, a cytosolic lipase-independent autophagic pathway (PubMed:23708524). Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]

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