

Product datasheet for MR202384

Rab11a (NM_017382) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rab11a (NM_017382) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rab11a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202384 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCCGCGACGACGAGTACGACTACCTCTTTAAAGTTGTCCTTATTGGAGATTCTGGTGTGGAA
AGAGTAACCTCCTGTCTCGATTTACTCGAAATGAGTTTAACTGGAAAGCAAGAGTACCATTGGAGTAGA
GTTTGAACAAGAAGCATCCAGGTTGATGGGAAAACAATAAGGCACAGATATGGGACACAGCAGGGCAG
GAGCGGTACAGGGCTATAACGTCTGCATACTATCGTGGAGCAGTAGGTGCCTTATTGGTTTATGACATTG
CTAAGCATCTCACATATGAAAATGTAGAGCGGATGGCTGAAAGAACTGAGAGATCATGCTGATAGTAACAT
TGTTATCATGCTTGTGGGCAATAAGAGTGATTTACGTCATCTCAGGGCAGTTCCTACAGATGAAGCAAGA
GCTTTTGCAGAGAAGAATGGTTTGCATTCATTGAGACATCTGCTCTAGATTCTACAAATGTTGAAGCTG
CTTTTCAGACAATTCTAACAGAGATATACCGCATTGTTTCTCAGAAGCAAATGTCAGACAGACGTGAAAA
TGACATGTCTCCAAGCAACAATGTGGTTCTATTGTTCCGCCACCCTGAGAACAAGCCAAAGGTG
CAGTGCTGTCAGAACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202384 protein sequence
Red=Cloning site Green=Tags(s)

MGTRDDEYDYLKVVLLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDTAGQ
ERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIIVMLVGNKSDLRHLRAVPTDEAR
AFAEKNGLSFIETSALDSTNVEAAFQTILTEIYRIVSQQMSDRRENDMSPSNNVPIHVPPPTTENPKV
QCCQNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

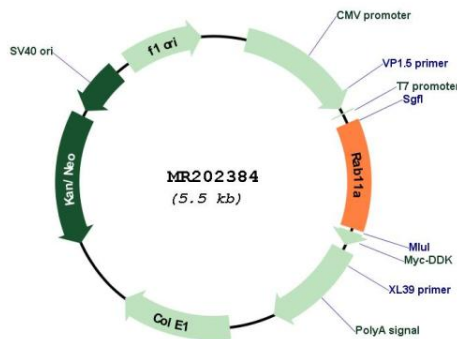


Cytogenetics: 9 C

MW: 24.4 kDa

Gene 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 set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. The small Rab GTPase RAB11A regulates endocytic recycling. Acts as a major regulator of membrane delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B participates in CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells. Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of monomeric Ig G) to basolateral membranes (By similarity). May also play a role in melanosome transport and release from melanocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202384