

## Product datasheet for **TA385101M**

### **RAB10 Rabbit Monoclonal Antibody [Clone ID: R06-2A3]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	R06-2A3
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/100 IP: 1/20
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of human RAB10
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 23 kDa; Observed MW: 23 kDa
Gene Name:	RAB10, member RAS oncogene family
Database Link:	<a href="#">Entrez Gene 10890 Human P61026</a>

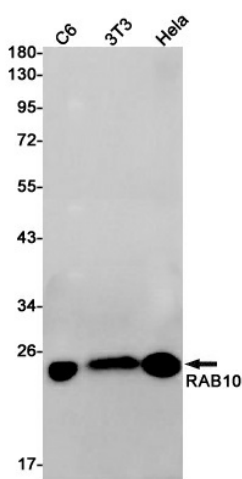
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**Background:**

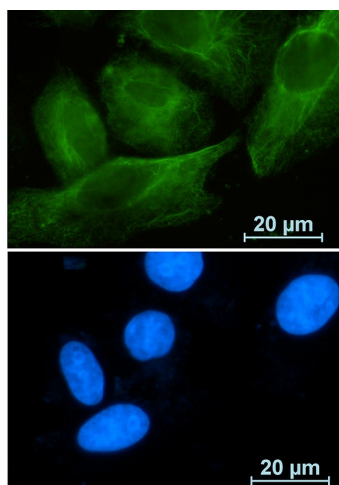
Swiss-Prot Acc.P61026. The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane. Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane. In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma membrane and therefore may be important for innate immune response. Plays also a specific role in asymmetric protein transport to the plasma membrane within the polarized neuron and epithelial cells. In neurons, it is involved in axonogenesis through regulation of vesicular membrane trafficking toward the axonal plasma membrane while in epithelial cells, it regulates transport from the Golgi to the basolateral membrane. Moreover, may play a role in the basolateral recycling pathway and in phagosome maturation. According to PubMed:23263280, may play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along microtubules and tubules fusion.

**Synonyms:**

RAB10

**Product images:**


Western blot analysis of RAB10 in C6, 3T3, HeLa lysates using RAB10 antibody.



Immunocytochemistry analysis of Rab10 (green) in A549 using Rab10 antibody, and DAPI (blue).