

## Rab 10 Monoclonal Antibody

<b>Catalog No :</b>	YM0544
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	Rab 10
<b>Fields :</b>	>>Endocytosis;>>AMPK signaling pathway
<b>Gene Name :</b>	RAB10
<b>Protein Name :</b>	Ras-related protein Rab-10
<b>Human Gene Id :</b>	10890
<b>Human Swiss Prot No :</b>	P61026
<b>Mouse Gene Id :</b>	19325
<b>Mouse Swiss Prot No :</b>	P61027
<b>Immunogen :</b>	Purified recombinant fragment of human Rab 10 expressed in E. Coli.
<b>Specificity :</b>	Rab 10 Monoclonal Antibody detects endogenous levels of Rab 10 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 23kD

**P References :**

1. Proc Natl Acad Sci U S A. 1993 Jul 15;90(14):6508-12.
2. J Biol Chem. 2003 Apr 25;278(17):15373-80.
3. Mol Med. 2010 Jul-Aug;16(7-8):247-53.

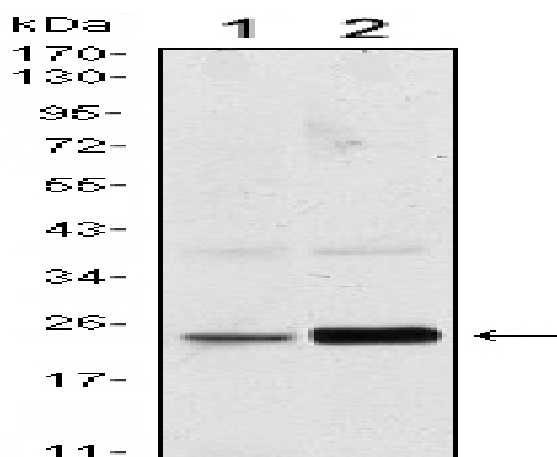
**Background :** RAB10 belongs to the RAS (see HRAS; MIM 190020) superfamily of small GTPases. RAB proteins localize to exocytic and endocytic compartments and regulate intracellular vesicle trafficking (Bao et al., 1998 [PubMed 9918381]).[supplied by OMIM, Mar 2009],

**Function :** function:May be involved in vesicular trafficking and neurotransmitter release.,similarity:Belongs to the small GTPase superfamily. Rab family.,

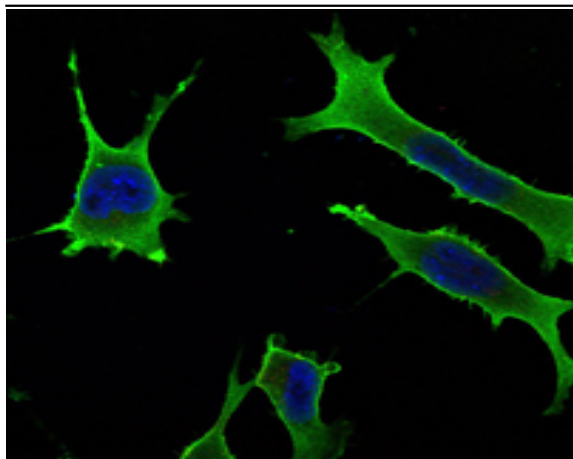
**Subcellular Location :** Cytoplasmic vesicle membrane ; Lipid-anchor ; Cytoplasmic side . Golgi apparatus membrane . Golgi apparatus, trans-Golgi network membrane . Endosome membrane . Recycling endosome membrane . Cytoplasmic vesicle, phagosome membrane . Cytoplasm, cytoskeleton, cilium basal body . Endoplasmic reticulum membrane . Cytoplasm, perinuclear region . Associates with SLC2A4/GLUT4 storage vesicles (PubMed:22908308). Localizes to the base of the cilium when phosphorylated by LRRK2 on Thr-73 (PubMed:20576682, PubMed:30398148). Transiently associates with phagosomes (By similarity). Localizes to the endoplasmic reticulum at domains of new tubule growth (PubMed:23263280). .

**Expression :** Expressed in the hippocampus (PubMed:29562525). Expressed in neutrophils (at protein level) (PubMed:29127255). Expressed in the testis (at protein level) (PubMed:28067790).

## Products Images



Western Blot analysis using Rab 10 Monoclonal Antibody against HeLa (1) and NIH/3T3 (2) cell lysate.



Immunofluorescence analysis of LOVO cells using Rab 10 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.