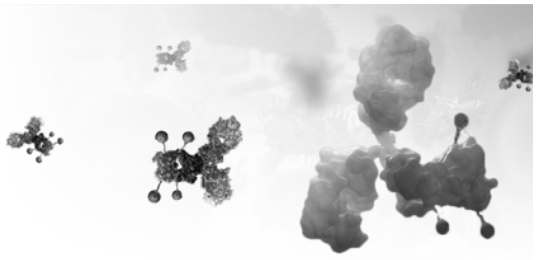

Rabbit Anti-Human RAB10 (Phospho T73) Monoclonal Antibody, clone NKG-S32-33-6 (CABT-Z617R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	NKG-S32-33-6
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, Dot, ICC/IF Recommended dilution: WB: 1:500 Dot: 1:1000 ICC/IF: 1:100
Positive Control	WB: HEK293 overexpressing HA-tagged Rab10, with MLi2 treatment whole cell lysate. ICC/IF: MLi-2 treated MEF cells. Dot Blot: Rab10 (phospho T73) peptide.
Format	Liquid
Concentration	Lot specific
Size	100 µl

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Buffer	PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, pH 7.2.
Preservative	0.01% Sodium azide
Storage	Store at +4℃ short term (1-2 weeks). Upon delivery aliquot. Store at -20℃. Stable for 12 months at -20℃.
Ship	Wet ice

BACKGROUND

Introduction	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 (By similarity). 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.
Keywords	RAB10;RAB10, member RAS oncogene family;ras-related protein Rab-10;ras related GTP binding protein;GTP-binding protein RAB10;ras-related GTP-binding protein

GENE INFORMATION

Gene Name	RAB10
Entrez Gene ID	10890
UniProt ID	P61026

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