

Rabbit anti-Human Rab10 Polyclonal Antibody | anti-Rab10 antibody

Rab10 Antibody

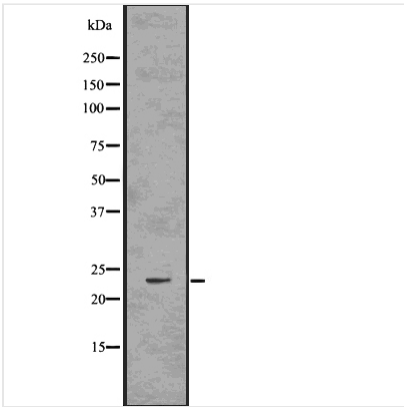
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327238	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

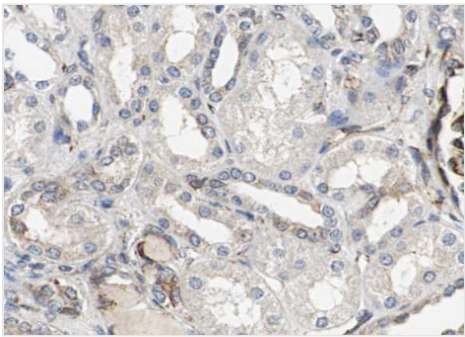
Rab10; Polyclonal Antibody; Rab10 Antibody; GTP binding protein RAB10; RAB10 member RAS oncogene family; RAB10_HUMAN; Ras related GTP binding protein; Ras related GTP binding protein RAB10; Ras-related protein Rab-10; anti-Rab10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Rab10 antibody detects endogenous levels of total Rab10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	200
Applicable Applications for anti-Rab10 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Rab10
Subcellular Location	Cytoplasmic Vesicle Membrane. Golgi Apparatus Membrane. Golgi Apparatus, Trans-Golgi Network Membrane. Endosome Membrane. Recycling Endosome Membrane. Cytoplasmic Vesicle, Phagosome Membrane. Cell Projection, Cilium. Endoplasmic Reticulum Membrane. Associates with SLC2A4/GLUT4 storage vesicles (PubMed:22908308). Localizes to the base of the cilium (PubMed:20576682). Transiently associates with phagosomes (By similarity). Localizes to the endoplasmic reticulum at domains of new tubule growth (PubMed:23263280).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of Rab10 using COLO205 whole cell lysates



IHC (Immunohistochemistry)
AAA327238 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-Rab10 antibody	Function: 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. Subunit Structure: Interacts with MYO5A; mediates the transport to the plasma membrane of SLC2A4/GLUT4 storage vesicles (PubMed:22908308). Interacts with GDI1 and maybe with GDI2; negatively regulates RAB10 association with membranes and activation (PubMed:19570034). Interacts (GDP-bound form) with LLGL1; the interaction is direct and promotes RAB10 association with membranes and activation through competition with the Rab inhibitor GDI1 (By similarity). Interacts with EXOC4; probably associates with the exocyst (By similarity). Interacts (GTP-bound form) with MICALCL, MICAL1, MICAL3, EHBP1 and EHBP1L1; at least in case of MICAL1 two molecules of RAB10 can bind to one molecule of MICAL1 (PubMed:27552051). Interacts with TBC1D13 (By similarity). Similarity: Belongs to the small GTPase superfamily. Rab family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256222019
NCBI GeneID	10890
NCBI Accession #	NP_057215.3
NCBI GenBank Nucleotide #	NM_016131.4
UniProt Accession #	P61026; O88386; Q6IA52; Q9D7X6; Q9H0T3; D6W538
Molecular Weight	Observed: 23 kDa Predicted: 23 kDa
NCBI Official Full Name	ras-related protein Rab-10
NCBI Official Synonym Full Names	RAB10, member RAS oncogene family
NCBI Official Symbol	RAB10

NCBI Protein Information	ras-related protein Rab-10
UniProt Protein Name	Ras-related protein Rab-10
UniProt Gene Name	RAB10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/rab10-antibody-immunohistochemistry-western-blot-elisa/327238>