Dynamin-2 (YD35836) Rabbit mAb

货号: AYD11304

产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB IHC-P ICC/IF
推荐浓度	
理论分子量	98kDa/98kDa/98kDa
实测分子量	
形式	Liquid
保存条件	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cytoplasm, cytoskeleton, Cytoplasmic vesicle, clathrin-coated vesicle, Cell projection, uropodium, Endosome, microtubule organizing center, centrosome, centriole, Recycling endosome, phagocytic cup, phagosome membrane, podosome, Cell junction, Postsynaptic density, Synapse, synaptosome, Midbody, Membrane, clathrin-coated pit, Cell membrane
纯化	

抗原信息

抗原信息	

靶点信息

研究背景	Catalyzes the hydrolysis of GTP and utilizes this energy to mediate vesicle scission at plasma membrane during endocytosis and filament remodeling at many actin structures during organization of the actin cytoskeleton (PubMed:15731758, PubMed:19605363, PubMed:19623537, PubMed:33713620, PubMed:34744632). Plays an important role in vesicular trafficking processes, namely clathrin-mediated endocytosis (CME), exocytic and clathrin-coated vesicle from the trans-Golgi network, and PDGF stimulated macropinocytosis (PubMed:15731758, PubMed:19623537, PubMed:33713620). During vesicular trafficking process, associates to the membrane, through lipid binding, and self-assembles into ring-like structure through oligomerization to form a helical polymer around the vesicle membrane and leading to vesicle scission (PubMed:17636067, PubMed:34744632, PubMed:36445308). Plays a role in organization of the actin cytoskeleton by mediating arrangement of stress fibers and actin bundles in podocytes (By similarity). During organization of the actin cytoskeleton, self-assembles into ring-like structure that directly bundles actin filamen

	ts to form typical membrane tubules decorated with dynamin spiral polymers (By similarity). Self-assemb ly increases GTPase activity and the GTP hydrolysis causes the rapid depolymerization of dynamin spiral polymers, and results in dispersion of actin bundles (By similarity). Remodels, through its interaction with CTTN, bundled actin filaments in a GTPase-dependent manner and plays a role in orchestrating the global actomyosin cytoskeleton (PubMed:19605363). The interaction with CTTN stabilizes the interaction of DN M2 and actin filaments and stimulates the intrinsic GTPase activity that results in actin filament-barbed e nds and increases the sensitivity of filaments in bundles to the actin depolymerizing factor, CFL1 (By simil arity). Plays a role in the autophagy process, by participating in the formation of ATG9A vesicles destined for the autophagosomes through its interaction with SNX18 (PubMed:29437695), by mediating recycling endosome scission leading to autophagosome release through MAP1LC3B interaction (PubMed:29437695, PubMed:32315611). Also regulates maturation of apoptotic cell corpse-containing phagosomes by recruiti ng PIK3C3 to the phagosome membrane (By similarity). Also plays a role in cytokinesis (By similarity). Ma y participate in centrosome cohesion through its interaction with TUBG1 (By similarity). Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). In volved in membrane tubulation (PubMed:24135484) Catalyzes the hydrolysis of GTP and utilizes this ener gy to mediate vesicle scission at plasma membrane during endocytosis and filament remodeling at many actin structures during organization of the actin cytoskeleton (By similarity). Plays an important role in ve sicular trafficking processes, namely clathrin-mediated endocytosis (CME), exocytic and clathrin-coated v esicle from the trans-Golgi network, and PDGF stimulated macropinocytosis (PubMed:18923138). During vesicular trafficking process, associates to the membrane, through lipid binding, and self-assembles into r ing-like structure through oligomerization to form a helical polymer around the vesicle membrane and lea ding to vesicle scission (By similarity). Plays a role in organization of the actin cytoskeleton by mediating arrangement of stress fibers and actin bundles in podocytes (By similarity). During organization of the act in cytoskeleton, self-assembles into ring-like structure that directly bundles actin filaments to form typica l membrane tubules decorated with dynamin spiral polymers (PubMed:33113375). Self-assembly increase s GTPase activity and the GTP hydrolysis causes the rapid depolymerization of dynamin spiral polymers, and results in dispersion of actin bundles (By similarity). Remodels, through its interaction with CTTN, bu ndled actin filaments in a GTPase-dependent manner and plays a role in orchestrating the global actomyo sin cytoskeleton (By similarity). The interaction with CTTN stabilizes the interaction of DNM2 and actin fil aments and stimulates the intrinsic GTPase activity that results in actin filament-barbed ends and increas es the sensitivity of filaments in bundles to the actin depolymerizing factor, CFL1 (By similarity). Plays a r ole in the autophagy process, by participating in the formation of ATG9A vesicles destined for the autoph agosomes through its interaction with SNX18, by mediating recycling endosome scission leading to autop hagosome release through MAP1LC3B interaction (By similarity). Also regulates maturation of apoptotic c ell corpse-containing phagosomes by recruiting PIK3C3 to the phagosome membrane (PubMed:18425118). Also plays a role in cytokinesis (PubMed:18923138). May participate in centrosome cohesion through it s interaction with TUBG1 (By similarity). Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Involved in membrane tubulation (By similarity) C atalyzes the hydrolysis of GTP and utilizes this energy to mediate vesicle scission at plasma membrane d uring endocytosis and filament remodeling at many actin structures during organization of the actin cyto skeleton (PubMed:19605363, PubMed:19995918, PubMed:35620056). Plays an important role in vesicular trafficking processes, namely clathrin-mediated endocytosis (CME), exocytic and clathrin-coated vesicle fr om the trans-Golgi network, and PDGF stimulated macropinocytosis (PubMed:19995918, PubMed:211951 18, PubMed:9438853). During vesicular trafficking process, associates to the membrane, through lipid bin ding, and self-assembles into ring-like structure through oligomerization to form a helical polymer around the vesicle membrane and leading to vesicle scission (PubMed:35620056). Plays a role in organization of the actin cytoskeleton by mediating arrangement of stress fibers and actin bundles in podocytes (PubMe d:35620056). 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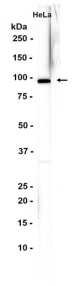
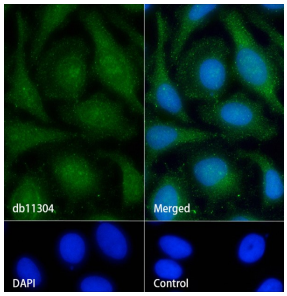
基因**ID**	1785
基因名	DNM2, Dnm2

Swiss	P50570, P39054, P39052
别名	Dynamin-2 (YD35836)

产品验证





实验步骤

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