

RAB3A RABBIT PAB

Cat.#: S217729

Product Name: Anti-RAB3A Rabbit Polyclonal Antibody

Synonyms:

UNIPROT ID: P20336 (Gene Accession - BC011782)

Background: Small GTP-binding protein that plays a central role in regulated exocytosis and secretion. Controls the recruitment, tethering and docking of secretory vesicles to the plasma membrane (By similarity). Upon stimulation, switches to its active GTP-bound form, cycles to vesicles and recruits effectors such as RIMS1, RIMS2, Rabphilin-3A/RPH3A, RPH3AL or SYTL4 to help the docking of vesicles onto the plasma membrane (By similarity). Upon GTP hydrolysis by GTPase-activating protein, dissociates from the vesicle membrane allowing the exocytosis to proceed (By similarity). Stimulates insulin secretion through interaction with RIMS2 or RPH3AL effectors in pancreatic beta cells (By similarity). Regulates calcium-dependent lysosome exocytosis and plasma membrane repair (PMR) via the interaction with 2 effectors, SYTL4 and myosin-9/MYH9 (PubMed:27325790). Acts as a positive regulator of acrosome content secretion in sperm cells by interacting with RIMS1 (PubMed:22248876, PubMed:30599141). Plays also a role in the regulation of dopamine release by interacting with synaptotagmin I/SYT (By similarity).

Immunogen: Fusion protein of human RAB3A

Applications: ELISA, WB, IHC

Recommended Dilutions: IHC: 100-300;WB: 500-2000;ELISA: 5000-10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

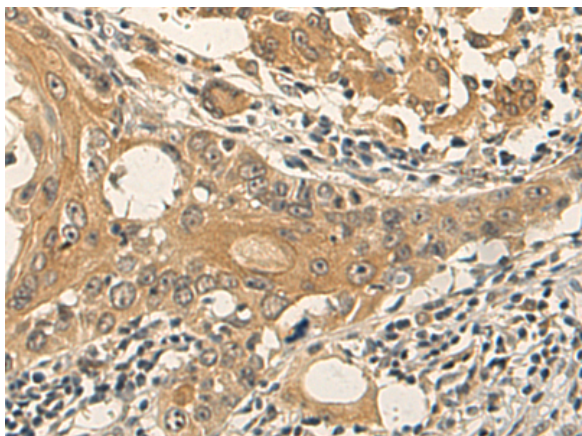
Purification: Antigen affinity purification

Species Reactivity: Human, Mouse, Rat

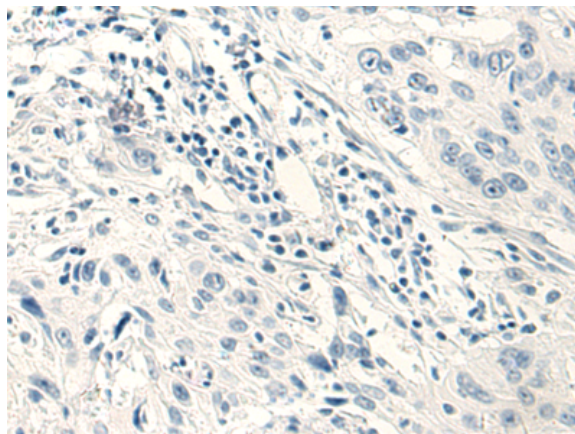
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

Research Areas: Signal Transduction

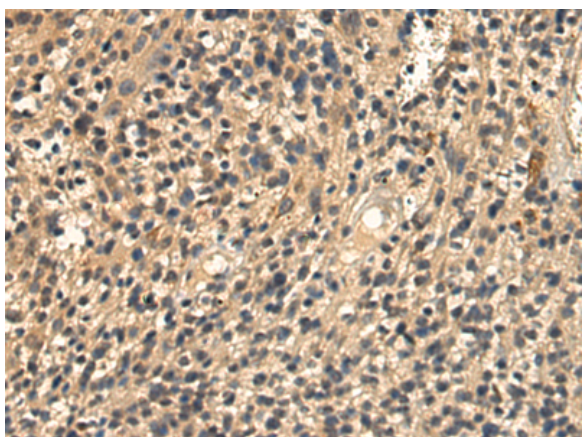
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



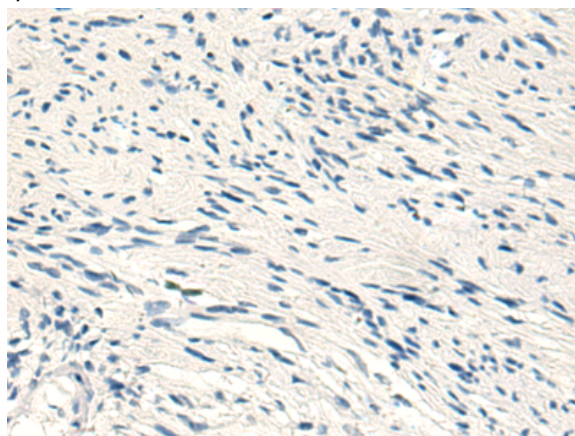
Immunohistochemistry analysis of paraffin embedded Human esophagus cancer tissue using 217729(RAB3A Antibody) at a dilution of 1/110(Cytoplasm).



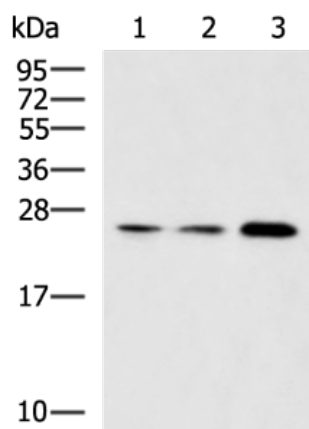
In comparison with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with the fusion protein and then with 217729(Anti-RAB3A Antibody) at dilution 1/110.



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using 217729(Anti-RAB3A Antibody) at a dilution of 1/110.



In comparison with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with fusion protein and then with D222958(Anti-RAB3A Antibody) at dilution 1/110.



Gel: 12%SDS-PAGE, Lysate: 40 µg;
 Lane 1-3: Human cerebella tissue, Human cerebrum tissue and Mouse brain tissue lysates;
 Primary antibody: 217729(RAB3A Antibody) at dilution 1/800;
 Secondary antibody: HRP-conjugated Goat anti rabbit IgG at 1/5000 dilution;
 Exposure time: 30 seconds



Product Description

Pioneering GTPase and Oncogene Product Development since 2010
