

Product datasheet for **TA369295**

RAB3A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human cerebella tissue, Human cerebrum tissue and Mouse brain tissue lysates IHC: 100-300 Positive control: Human esophagus cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human RAB3A
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	25 kDa
Gene Name:	RAB3A, member RAS oncogene family
Database Link:	Entrez Gene 5864 Human P20336



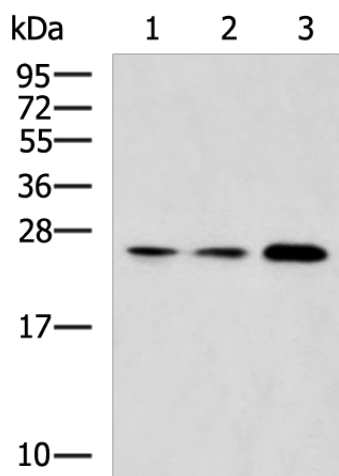
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Background:

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).

Synonyms:

RAB3A

Product images:

Gel: 12%SDS-PAGE

Lysate: 40 µg

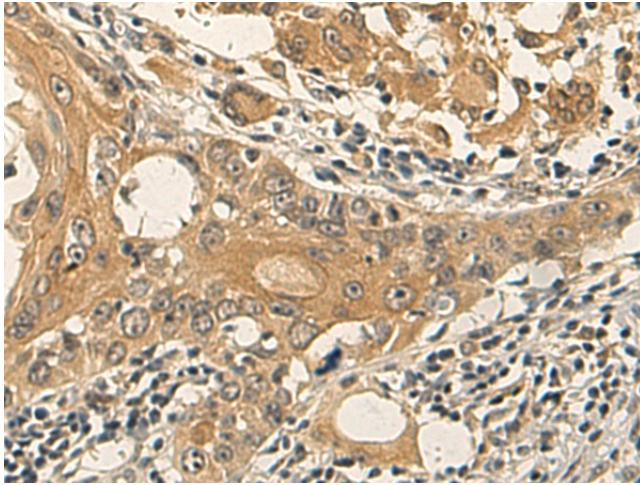
Lane 1-3: Human cerebella tissue

Human cerebrum tissue and Mouse brain tissue lysates

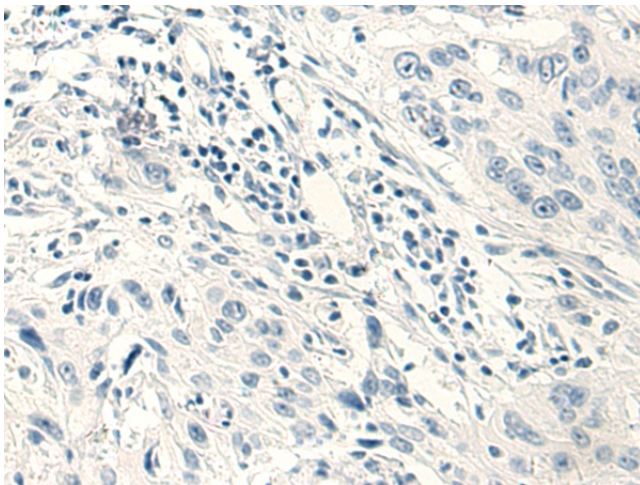
Primary antibody: TA369295 (RAB3A Antibody) at dilution 1/800

Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution

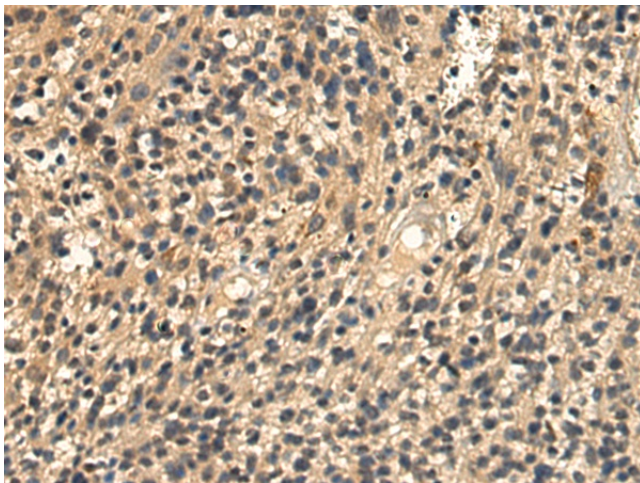
Exposure time: 30 seconds



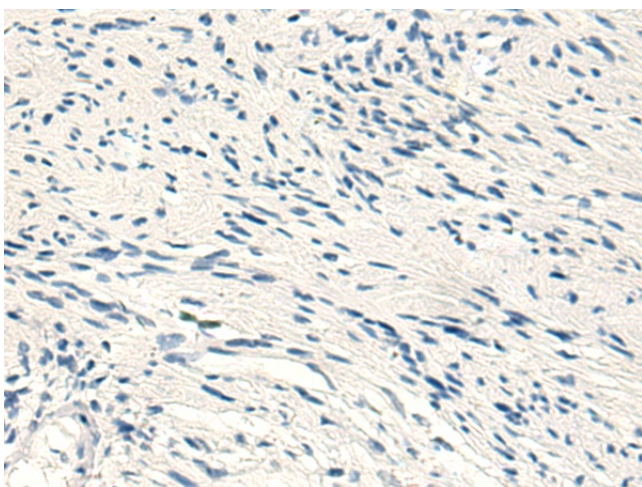
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA369295 (RAB3A Antibody) at dilution 1/110 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA369295 (RAB3A Antibody) at dilution 1/110, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA369295 (RAB3A Antibody) at dilution 1/110 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA369295 (RAB3A Antibody) at dilution 1/110, treated with fusion protein. (Original magnification: $\times 200$)