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RHG19 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9811c

Product Information

Application	WB, FC, E
Primary Accession	Q14CB8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25474
Calculated MW	55756
Antigen Region	195-224

Additional Information

Gene ID	84986
Other Names	Rho GTPase-activating protein 19, Rho-type GTPase-activating protein 19, ARHGAP19
Target/Specificity	This RHG19 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 195-224 amino acids from the Central region of human RHG19.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RHG19 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARHGAP19 {ECO:0000303|PubMed:17454002, ECO:0000312|HGNC:HGNC:23724}
Function	Has GTPase activator activity toward RHOA; RHOA activation results in GTP hydrolysis and conversion from an active GTP-bound to an inactive GDP-bound state (PubMed:24259668, PubMed:41086021). Lacks GTPase

activator activity toward RAC1 or CDC42 (PubMed:24259668).

Cellular Location

Nucleus. Cytoplasm Cytoplasm, cell cortex. Note=Localization changes during the cell cycle. In prophase and metaphase, it is dispersed in the cytoplasm; after anaphase onset, it is recruited at the cell cortex, and during cleavage furrow ingression and until the end of telophase, it concentrates at the equatorial cortex

Tissue Location

Strong expression in fetal heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Weak expression in adult pancreas, spleen, thymus, and ovary. Expressed in T-lymphocytes; expression varies during the cell cycle and is high at mitosis (PubMed:24259668).

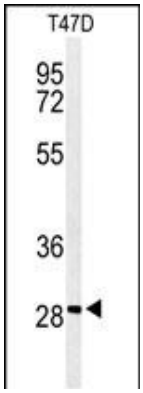
Background

Members of the ARHGAP family, such as ARHGAP19, encode negative regulators of Rho GTPases (see RHOA; MIM 165390), which are involved in cell migration, proliferation, and differentiation, actin remodeling, and G1 cell cycle progression.

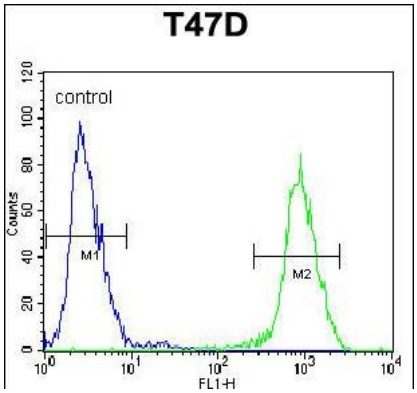
References

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Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)
Deloukas, P., et al. Nature 429(6990):375-381(2004)
Jikuya, H., et al. DNA Res. 10(1):49-57(2003)

Images



Western blot analysis of RHG19 Antibody (Center) (Cat. #AP9811c) in T47D cell line lysates (35ug/lane). RHG19 (arrow) was detected using the purified Pab.



RHG19 Antibody (Center) (Cat. #AP9811c) flow cytometric analysis of T47D cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.