

RAB13 Polyclonal antibody

Catalog Number: 31416-1-AP

Basic Information

Catalog Number: 31416-1-AP	GenBank Accession Number: BC000799	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 650 ug/ml by Nanodrop;	GeneID (NCBI): 5872	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P51153	
Isotype: IgG	Full Name: RAB13, member RAS oncogene family	
Immunogen Catalog Number: AG34898	Calculated MW: 203 aa, 23 kDa	
	Observed MW: 20-23 kDa	

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HEK-293T cells, HeLa cells, MCF-7 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse testis tissue, mouse stomach tissue

Background Information

RAB13 (Ras-related protein Rab-13) is also named as GIG4. Rab13 is a member of the Rab GTPase family. RAB13 is highly expressed in malignant cells. Rab13 was highly expressed in BCSC of triple-negative breast cancer (TNBC) (PMID: 35395074). RAB13 is involved in a number of processes in LIHC, including MTORC1 signaling, MYC targets v1, G2M checkpoint, MITOTIC spindle, DNA repair, P53 pathway, glycolysis, PI3K-AKT-MTOR signaling, etc (PMID: 37803063). RAB13 enhances its circulation to the plasma membrane to promote breast cancer invasion. By influencing the tumor microenvironment, RAB13 maintains breast cancer stem cells (PMID: 37803063).

Storage

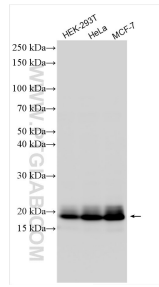
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

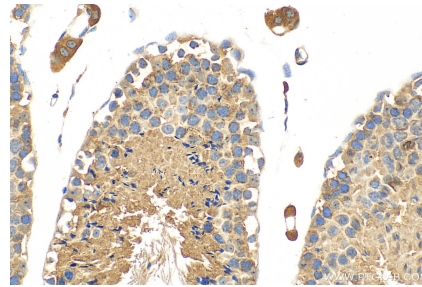
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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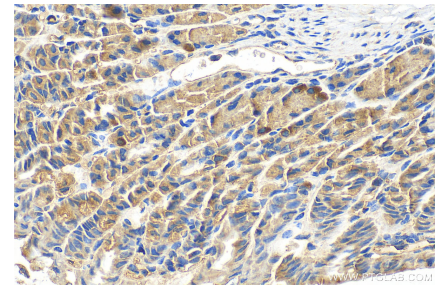
Selected Validation Data



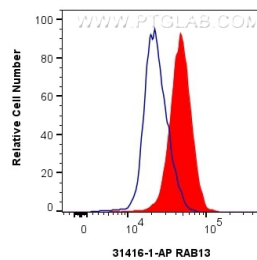
Various lysates were subjected to SDS PAGE followed by western blot with 31416-1-AP (RAB13 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 31416-1-AP (RAB13 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 31416-1-AP (RAB13 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 K-562 cells were intracellularly stained with 0.8 μ g RAB13 Polyclonal antibody (31416-1-AP) and Multi-rAb CoraLite[®] Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002)(red), or 0.8 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).