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PGAP1 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22207a

Product Information

Application	WB, FC, IF, E
Primary Accession	Q75T13
Other Accession	Q3UUQ7, Q765A7
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55152
Calculated MW	105383

Additional Information

Gene ID	80055
Other Names	GPI inositol-deacylase, 3.1.-.-, Post-GPI attachment to proteins factor 1, hPGAP1, PGAP1
Target/Specificity	This PGAP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 90-122 amino acids from human PGAP1.
Dilution	WB~~1:2000 FC~~1:25 IF~~1:25 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	PGAP1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PGAP1 (HGNC:25712)
Function	GPI inositol-deacylase that catalyzes the remove of the acyl chain linked to the 2-OH position of inositol ring from the GPI- anchored protein (GPI-AP) in the endoplasmic reticulum (PubMed:24784135, PubMed:38167496). Initiates

	the post-attachment remodeling phase of GPI-AP biogenesis and participates in endoplasmic reticulum (ER)-to-Golgi transport of GPI-anchored protein (PubMed:24784135, PubMed:38167496).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q765A7}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q765A7}

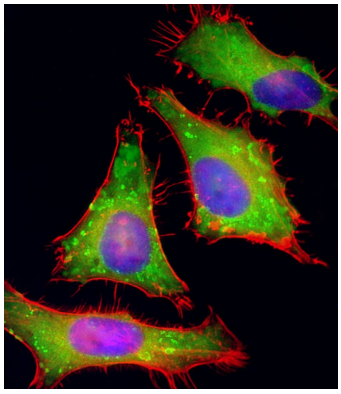
Background

Involved in inositol deacylation of GPI-anchored proteins. GPI inositol deacylation may important for efficient transport of GPI-anchored proteins from the endoplasmic reticulum to the Golgi (By similarity).

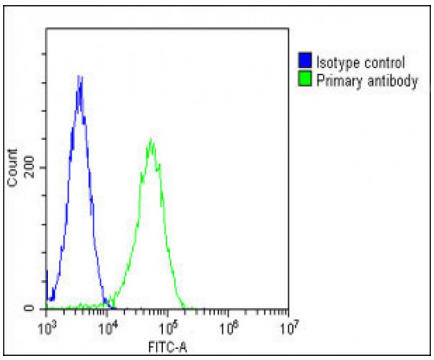
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Hillier L.W.,et al.Nature 434:724-731(2005).
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Images

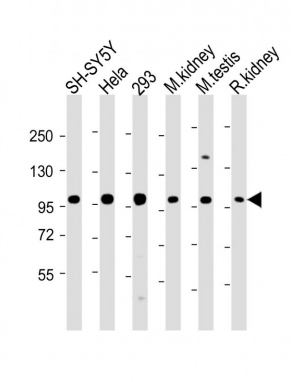


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling PGAP1 with AP22207a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (OI17558410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).



Overlay histogram showing Hela cells stained with AP22207a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22207a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight®488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-PGAP1 Antibody (N-Term) at 1:2000 dilution Lane 1: SH-SY5Y whole cell lysate Lane 2: Hela whole cell lysate Lane 3: 293 whole cell lysate Lane 4: mouse kidney lysate Lane 5: mouse testis lysate Lane 6: rat kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase



conjugated at 1/10000 dilution. Predicted band size : 105 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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