10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FAM125A Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22249a

Product Information

Application	WB, IF, FC, E
Primary Accession	Q96EY5
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56733
Calculated MW	28783

Additional Information

Gene ID	93343
Other Names	Multivesicular body subunit 12A, CIN85/CD2AP family-binding protein, ESCRT-I complex subunit MVB12A, Protein FAM125A, MVB12A, CFBP, FAM125A
Target/Specificity	This FAM125A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 16-50 amino acids from human FAM125A.
Dilution	WB~~1:2000 IF~~1:25 FC~~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	FAM125A Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MVB12A
Synonyms	CFBP, FAM125A
Function	Component of the ESCRT-I complex, a regulator of vesicular trafficking

	process. Required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. May be involved in the ligand-mediated internalization and down-regulation of EGF receptor.
Cellular Location	Cytoplasm. Nucleus. Endosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Late endosome membrane; Peripheral membrane protein Note=Colocalizes with F-actin. Some fraction may be nuclear
Tissue Location	Ubiquitously expressed except in skeletal muscle.

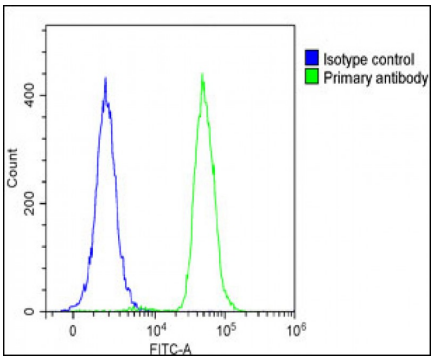
Background

Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. May be involved in the ligand-mediated internalization and down- regulation of EGF receptor.

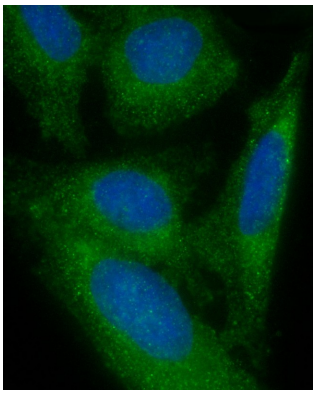
References

Konishi H.,et al.J. Biol. Chem. 281:28919-28931(2006).
Beausoleil S.A.,et al.Nat. Biotechnol. 24:1285-1292(2006).
Morita E.,et al.Cell Host Microbe 2:41-53(2007).
Morita E.,et al.EMBO J. 26:4215-4227(2007).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

Images

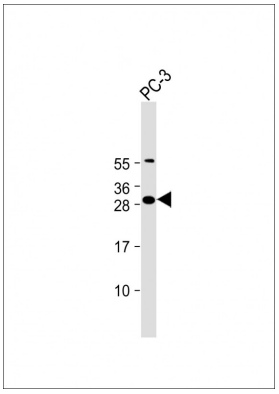


Overlay histogram showing A431 cells stained with AP22249a(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human osteosarcoma cell line) cells labeling FAM125A with AP22249a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and nucleus staining on U-2 OS cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).

Anti-FAM125A Antibody (N-Term) at 1:2000 dilution + PC-3 whole cell lysate Lysates/proteins at 20 µg per lane.



Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.