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ARV1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10655a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9H2C2
Other Accession	Q3SZW3, NP_073623.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31052
Antigen Region	23-51

Additional Information

Gene ID	64801
Other Names	Protein ARV1, hARV1, ARV1
Target/Specificity	This ARV1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-51 amino acids from the N-terminal region of human ARV1.
Dilution	WB~~1:2000 IHC-P~~1:100~500 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	ARV1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARV1
Function	Plays a role as a mediator in the endoplasmic reticulum (ER) cholesterol and bile acid homeostasis (PubMed:11063737, PubMed:12145310, PubMed:20663892). Participates in sterol transport out of the ER and

	distribution into plasma membranes (PubMed:20663892).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous. Highly expressed in liver and adipose.

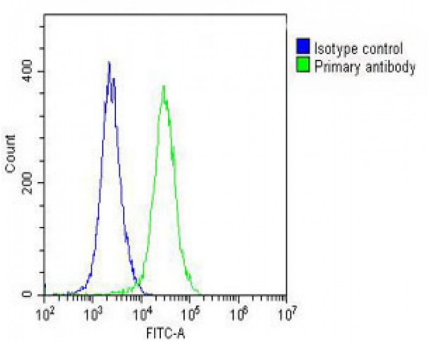
Background

May act as a mediator of sterol homeostasis (Potential).

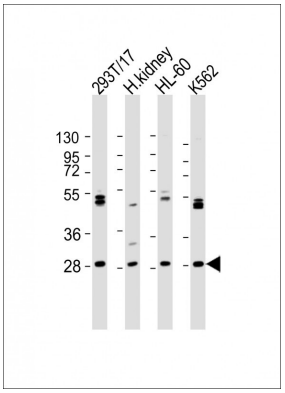
References

Tong, F., et al. J. Biol. Chem. 285(44):33632-33641(2010)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Swain, E., et al. J. Biol. Chem. 277(39):36152-36160(2002)
Tinkelenberg, A.H., et al. J. Biol. Chem. 275(52):40667-40670(2000)

Images

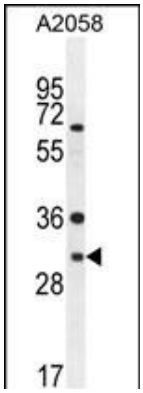


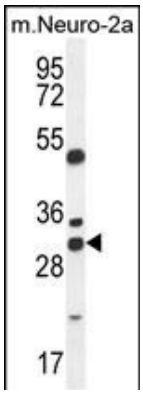
Overlay histogram showing A2058 cells stained with AP10655A(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP10655A, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



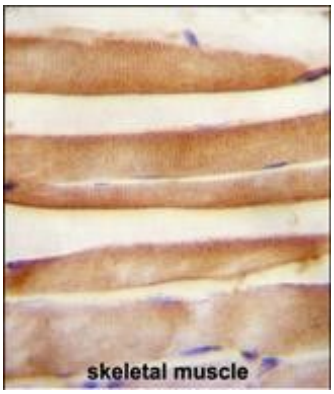
All lanes : Anti-ARV1 Antibody (N-term) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: human kidney lysate Lane 3: HL-60 whole cell lysate Lane 4: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ARV1 Antibody (N-term) (Cat. #AP10655a) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the ARV1 antibody detected the ARV1 protein (arrow).





ARV1 Antibody (N-term) (Cat. #AP10655a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the ARV1 antibody detected the ARV1 protein (arrow).



ARV1 antibody (N-term) (Cat. #AP10655a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ARV1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Mice lacking ARV1 have reduced signs of metabolic syndrome and non-alcoholic fatty liver disease.