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

SDR Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9935c

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	O95810
Reactivity	Human
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15464
Calculated MW	47173
Antigen Region	109-135

Additional Information

Gene ID	8436
Other Names	Serum deprivation-response protein, Cavin-2, PS-p68, Phosphatidylserine-binding protein, SDPR {ECO:0000312|EMBL:AAD177951}
Target/Specificity	This SDR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-135 amino acids from the Central region of human SDR.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	SDR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CAVIN2 (HGNC:10690)
Function	Plays an important role in caveolar biogenesis and morphology. Regulates caveolae morphology by inducing membrane curvature within caveolae

	(PubMed:19525939). Plays a role in caveola formation in a tissue-specific manner. Required for the formation of caveolae in the lung and fat endothelia but not in the heart endothelia. Negatively regulates the size or stability of CAVIN complexes in the lung endothelial cells. May play a role in targeting PRKCA to caveolae (By similarity).
Cellular Location	Cytoplasm, cytosol. Membrane, caveola Note=Localizes in the caveolae in a caveolin-dependent manner
Tissue Location	Highly expressed in heart and lung, and expressed at lower levels in brain, kidney, liver, pancreas, placenta, and skeletal muscle.

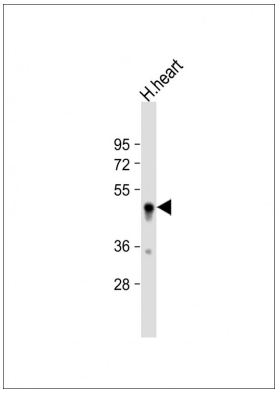
Background

This gene encodes a calcium-independent phospholipid-binding protein whose expression increases in serum-starved cells. This protein is a substrate for protein kinase C (PKC) phosphorylation and recruits polymerase I and transcript release factor (PTRF) to caveolae. Removal of this protein causes caveolae loss and its over-expression results in caveolae deformation and membrane tubulation.

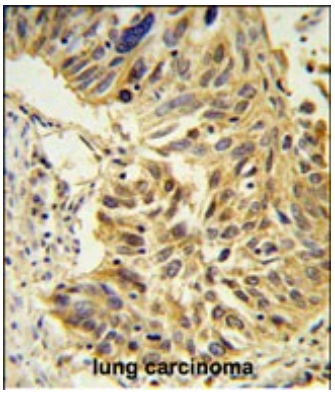
References

Baig, A., et al. Proteomics 9(17):4254-4258(2009)
Hansen, C.G., et al. Nat. Cell Biol. 11(7):807-814(2009)
Ogata, T., et al. Mol. Cell. Biol. 28(10):3424-3436(2008)

Images

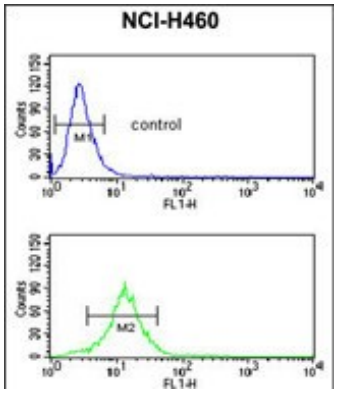


Anti-SDR Antibody (Center) at 1:1000 dilution + human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



SDR Antibody (Center) (Cat. #AP9935c) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SDR Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

SDR Antibody (Center) (Cat. #AP9935c) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the



analysis.

Citations

- Down-regulation of miR-206 is associated with Hirschsprung disease and suppresses cell migration and proliferation in cell models.

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