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SDR Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9935c

Specification

SDR Antibody (Center) Blocking Peptide - Product Information

Primary Accession O95810

SDR Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8436

Other Names
Serum deprivation-response protein, Cavin-2, PS-p68, Phosphatidylserine-binding protein, SDPR {ECO:0000312|EMBL:AAD177951}

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SDR Antibody (Center) Blocking Peptide - 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.

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SDR Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SDR Antibody (Center) Blocking Peptide - Images

SDR Antibody (Center) Blocking Peptide - 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.

SDR Antibody (Center) Blocking Peptide - 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)