

SDR Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9935c**Specification**

SDR Antibody (Center) Blocking Peptide - Product InformationPrimary 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.

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)