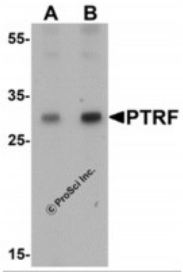
GENTAUR

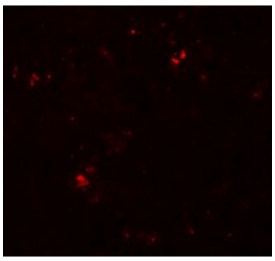
DATA SHEET

# SDPR Antibody

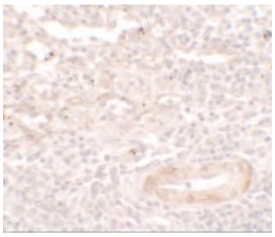
CATALOG NUMBER: 7265




Western blot analysis of SDPR in HeLa cell lysate with SDPR antibody at (A) 1 and (B) 2 ug/mL



Immunofluorescence of SDPR in human spleen tissue with SDPR antibody at 20 ug/ml.



Immunohistochemistry of SDPR in spleen tissue with SDPR antibody at 5 ug/ml.

## Specifications

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|---|---|
| **SPECIES REACTIVITY:** | Human |
| **TESTED APPLICATIONS:** | E, WB, IHC, IF |
| **APPLICATIONS:** | SDPR antibody can be used for detection of SDPR by Western blot at 1 - 2 ug/mL. |
| **USER NOTE:** | Optimal dilutions for each application to be determined by the researcher. |
| **POSITIVE CONTROL:** | 1) Cat. No. 1201 - HeLa Cell Lysate |
| **PREDICTED MOLECULAR WEIGHT:** | 47 kDa |
| **SPECIFICITY:** | It is predicted to not cross-react with other members of the cavin family. |
| **IMMUNOGEN:** | Rabbit polyclonal SDPR antibody was raised against an 18 amino acid peptide near the amino terminus of human SDPR. |
| **HOST SPECIES:** | Rabbit |

## Properties

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|---|---|
| **PURIFICATION:** | SDPR Antibody is affinity chromatography purified via peptide column. |
| **PHYSICAL STATE:** | Liquid |
| **BUFFER:** | SDPR Antibody is supplied in PBS containing 0.02% sodium azide. |
| **CONCENTRATION:** | 1 mg/mL |
| **STORAGE CONDITIONS:** | SDPR antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. |
| **CLONALITY:** | This is a polyclonal SDPR Antibody. |
| **ISOTYPE:** | IgG |
| **CONJUGATE:** | None |

## Additional Info

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|---|---|
| **ALTERNATE NAMES:** | SDPR Antibody: Serum deprivation response, SDR, serum deprivation-response protein, CAVIN2, PS-p68, cavin-2, phosphatidylserine binding protein |
| **ACCESSION NO.:** | NP_004648 |
| **PROTEIN GI NO.:** | 4759082 |

## Background

**BACKGROUND**

SDPR Antibody: The serum deprivation-response protein (SDPR) is a calcium-independent phospholipid-binding protein whose expression is increased in serum-starved cells. SDPR is a substrate for protein kinase C (PKC) phosphorylation and recruits the 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. Both SDPR and PTRF, as well as the other member of the cavin family PRKCDBP were down regulated in breast cancer cell lines and breast tumor tissue, suggesting that expression of the cavin family proteins could be a useful prognostic indicator of breast cancer progression.

**REFERENCES**

1) Gustincich S, Vatta P, Goruppi S, et al. The human serum deprivation response gene (SDPR) maps to 2q32-q33 and codes for a phosphatidylserine-binding protein. Genomics 1999; 57:120-9.

2) Hansen CG, Bright NA, Howard G, et al. SDPR induces membrane curvature and functions in the formation of caveolae. Nat. Cell Biol. 2009; 11:807-14.

3) Bai L, Deng X, Li Q, et al. Down-regulation of the cavin family proteins in breast cancer. J. Cell Biochem. 2012; 113:322-8.

**FOR RESEARCH USE ONLY**

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