

Product Information

Anti-SDCBP

produced in rabbit, affinity isolated antibody

Product Number **S1701**

Product Description

Anti-SDCBP is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human SDCBP (GenelD: 6386), conjugated to KLH. The corresponding sequence differs by 1 amino acid in mouse and rat SDCBP and by 6 amino acids in human SDCBP2. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-SDCBP recognizes human, rat, and mouse SDCBP, and may recognize human SDCBP2. The antibody can be used in several immunochemical techniques including immunoblotting (~30 kDa), immunoprecipitation, and immunofluorescence. Detection of the SDCBP band by immunoblotting is specifically inhibited by the immunizing peptide.

Syndecan binding protein (SDCBP), also named syntenin and MDA-9, was initially identified as a molecule linking syndecan-mediated signaling to the cytoskeleton. SDCBP contains tandemly repeated PDZ domains that bind the cytoplasmic, C-terminal domains of a variety of transmembrane proteins. This protein may also affect cytoskeletal-membrane organization, cell adhesion, protein trafficking, and the activation of transcription factors. SDCBP was found to promote metastasis in human melanoma cells by activating c-Src. SDCBP is primarily localized to membrane-associated adherens junctions and focal adhesions but is also found at the endoplasmic reticulum and nucleus. Alternative splicing results in multiple transcript variants encoding different isoforms.¹⁻²

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 2-4 µg/mL is recommended using whole extract of human HEK-293T cells, rat NRK cells, or mouse Neuro-2a cells.

Immunoprecipitation: a working antibody amount of 10-20 µg is recommended using lysates of human HeLa cells.

Immunofluorescence: a working antibody concentration of 2-5 µg/mL is recommended using human HeLa cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Boukerche, H. et al., *Proc. Natl. Acad. Sci. USA*, **105**, 15914-15919 (2008).
2. Sarkar, D. et al., *Cancer Res.*, **68**, 3087-3093 (2008).

VS,ST,TD,KAA,PHC,MAM 04/19-1