

Product Information

Anti-Splicing Factor SC-35 antibody, Mouse monoclonal clone SC-35, purified from hybridoma cell culture

Product Number **SAB4200725**

Product Description

Anti-Splicing Factor SC-35 antibody, Mouse monoclonal (mouse IgG1 isotype) is derived from the SC-35 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from a RBF-DHJ mouse immunized with partially purified spliceosomes prepared from HeLa cells.¹ The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells.

Monoclonal Anti-Splicing Factor SC-35 antibody specifically recognizes a phospho-epitope of the non-snRNP (small nuclear ribonucleoprotein particles) factor SC-35.¹⁻³ The antibody is reactive with the SC-35-related non-snRNP factor SF2/ASF (SRSF1).³ It reacts with the splicing factor SC-35 from human, mouse⁵, porcine⁶, quail⁷, hamster⁹, rat¹⁰, frog¹¹ and salamander¹¹ origin.

Monoclonal Anti-Splicing Factor SC-35 is recommended to use in various immunochemical assays, including Dotblot, ELISA¹, Immunofluorescence^{1,5} (SC-35 labels as nucleoplasm speckled pattern, excluding the nucleoli)^{2,4}, Immunohistochemistry⁸, Immunoblotting² (doublet at ~35 kDa), Immunoprecipitation¹⁻⁴ and for inhibition and depletion of splicing activity in nuclear extracts.³⁻⁴

Splicing Factor SC-35, also known as serine/arginine-rich splicing factor 2 (SRSF2), PR264, splicing component 35 kDa (SC35) or SRp30b, belongs to the family of serine/arginine-rich (SR) proteins which are critical regulators of constitutive and alternative pre-mRNA splicing.¹²⁻¹³ SC-35 protein controls cellular apoptosis in response to genotoxic stress such as cisplatin treatment.¹² SRPK1 kinase specifically phosphorylates SC-35, resulting in p53 suppression and cyclin D1 upregulation.¹⁴ Elevated levels of SC-35 correlate with aggressive phenotype in several cancer types including lung squamous cell carcinoma and lung adenocarcinoma.⁸ In addition, it was demonstrated that SC-35 has oncogenic function in tumor progression of human papilloma virus (HPV)-infected cells.¹³

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

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

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

Product Profile

Immunofluorescence: a working concentration of 0.125-0.25 µg/ml is recommended using HeLa cells.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

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