Technical Data Sheet

# Purified Mouse Anti-SC35

## Product Information

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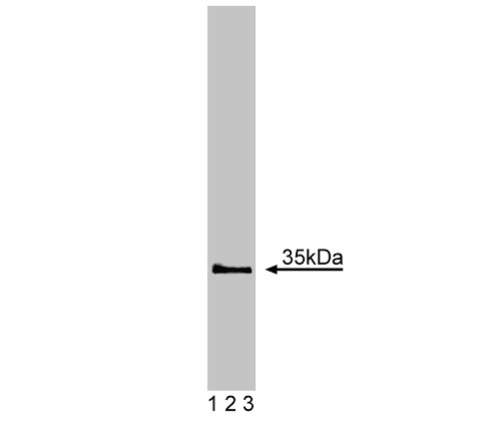
| **Material Number:** | **556363** |
| **Size:** | 0.1 mg |
| **Concentration:** | 0.5 mg/ml |
| **Clone:** | αSC35 |
| **Immunogen:** | Partially purified spliceosomes |
| **Isotype:** | Mouse IgG1, κ |
| **Reactivity:** | QC Testing: Human |
| **Storage Buffer:** | Aqueous buffered solution containing ≤0.09% sodium azide. |

## Description

SC35 belongs to a highly conserved SR splicing factor family. Members of this family have characteristic RNA-binding domains and serine/arginine-rich (SR) motifs. SR proteins are expressed in the nucleus and are essential pre-messenger RNA splicing factors. Nuclear pre-messenger RNA takes place in spliceosomes, multicomponent complexes consisting of five small nuclear ribonucleoprotein particles (U1, U2, U4, U5, U6) and other non-snRNP factors such as SC35. SC35 is necessary for an early step in spliceosome assembly and can also influence the selection of alternative splice sites. SC35 is identified as a 35 kDa protein in SDS/PAGE.

Clone αSC35 has been shown to recognize SC35 in human, and rat cells. However, it should recognize SC35 from any species, as SC35 is conserved from Drosophila to man. Partially purified spliceosomes were used as immunogen.




***Western blot analysis of SC35.*** *Lysates from MG-63 human osteosarcoma cells were probed with anti-SC35 (clone αSC35, Cat. No. 556363). SC35 is detected as a band of ~35 kDa.*

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C.

## Application Notes

**Application**

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| Western blot | Routinely Tested |
| Immunofluorescence | Tested During Development |
| Immunoprecipitation | Reported |

**Recommended Assay Procedure:**

Staining is nuclear, a punctate or speckled nuclear pattern may be detected. Only a subset of cells are stained, the percentage may vary between cell type and experimental conditions. MG-63 human osteosarcoma, HeLa carcinoma (ATCC CCL-2), or BRL-3A rat liver cells (ATCC CRL-1442) are suggested as positive controls.

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References


Fu XD. Specific commitment of different pre-mRNAs to splicing by single SR proteins. *Nature.* 1993; 365(6441):82-85.(Biology)

Fu XD, Maniatis T. Factor required for mammalian spliceosome assembly is localized to discrete regions in the nucleus. *Nature.* 1990; 343(6257):437-441. (Immunogen: Immunofluorescence, Western blot)

Sukegawa J, Blobel G. A putative mammalian RNA helicase with an arginine-serine-rich domain colocalizes with a splicing factor. *J Biol Chem.* 1995; 270(26):15702-15706.(Clone-specific: Immunofluorescence)