

# Product Information

## Monoclonal Anti-Strumpellin antibody produced in mouse

clone St-1, purified from hybridoma cell culture

Catalog Number **SAB4200647**

### Product Description

Monoclonal Anti-Strumpellin (mouse IgG1 isotype) is derived from the hybridoma St-1 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal region of human Strumpellin (GeneID: 9897), conjugated to KLH. The corresponding sequence differs by a single amino acid in mouse and rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Strumpellin recognizes human, rat and mouse Strumpellin. The antibody may be used in various immunochemical techniques including immunoblotting (~110 kDa), Flow Cytometry and Immunoprecipitation.

Strumpellin, also known as KIAA0196 is a component of the WASH multiprotein complex, an actin-regulating complex that is recruited to endosomes by interactions with the retromer complex. In addition to Strumpellin, the WASH complex is composed of WASH1, FAM21, KIAA1033 (SWIP) and CCDC53. Mutations in the gene encoding strumpellin, *KIAA0196*, cause hereditary spastic paraparesis, a progressive neurodegenerative disorder clinically characterized by central motor system deficits leading to spastic paraparesis of the lower limbs. Strumpellin presence was observed in protein aggregate diseases affecting striated muscles and the CNS.<sup>1-5</sup>

### 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 Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

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

Immunoblotting: a working concentration of 2.5-5 µg/mL is recommended using whole extracts of rat A10 cells.

Flow Cytometry: a working dilution of 10-20 µg /test is recommended using HeLa cells.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of rat A10 cells.

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

### References

1. Valdmanis, P.N., et al., *Am. J. Hum. Genet.*, **80**, 152-161 (2007).
2. Jia, D., et al., *Proc. Natl. Acad. Sci. USA*, **107**, 10442-10447 (2010).
3. Harbour, M.E., et al., *J. Cell Sci.*, **123**, 3703-3717 (2010).
4. Clemen, C.S., et al., *Brain*, **133**, 2920-2941 (2010).
5. Freeman, C., et al., *Biochim. Biophys. Acta*, **1832**, 160-173 (2013).

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