

## Product Information

### Anti-Strumpellin

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200549**

### Product Description

Anti-Strumpellin is produced in rabbit using as immunogen 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 antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Strumpellin recognizes human, rat and mouse Strumpellin. The antibody may be used in various immunochemical techniques including immunoblotting (~110 kDa). Detection of the Strumpellin band by immunoblotting is specifically inhibited by the immunizing peptide.

Strumpellin 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 paraplegia, 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 Material 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 2.5-5.0 µg/mL is recommended using whole extracts of human DU145 and rat A10.

A working concentration of 5-10 µg/mL is recommended using whole extracts of mouse A20 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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