

## Product Information

### Anti-SORBS2 (N-terminal)

produced in rabbit, affinity isolated antibody

Product Number **SAB4200038**

#### Product Description

Anti-SORBS2 (N-terminal) is produced in rabbit using as the immunogen a synthetic peptide corresponding to a sequence at the N-terminal of human SORBS2 isoform 2 (GeneID: 8470), conjugated to KLH. The corresponding sequence is identical in human SORBS2 isoform 1 and highly conserved (82% identity) in mouse and rat SORBS2. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-SORBS2 (N-terminal) specifically recognizes human SORBS2. The antibody may be used in various immunochemical techniques including immunoblotting (~85 kDa) and immunofluorescence. Detection of the SORBS2 band by immunoblotting is specifically inhibited by the SORBS2 immunizing peptide.

Arg and c-Abl are members of the Abelson family of protein-tyrosine kinases.<sup>1</sup> They interact with Arg/Abl binding proteins via their C-terminal SH3 domains. SORBS2 (also known as ArgBP2), is an Arg/Abl-binding protein, that contains an N-terminal sorbin homology (SoHo) domain that interacts with lipid raft proteins, three C-terminal SH3 domains, a Ser/Thr-rich domain, and several potential Abl phosphorylation sites.<sup>1-3</sup>

SORBS2 associates with and is a substrate of Arg and v-Abl, and is phosphorylated on tyrosine in v-Abl-transformed cells. The human SORBS2 gene encodes multiple transcripts that yield different isoforms. Another related member of the ArgBP family, nARGBP2, is specifically expressed in neuronal tissues and interacts with SAPAP at neuronal synapses.<sup>4</sup> SORBS2 is widely expressed in human tissues, and particularly abundant in heart. In epithelial cells. SORBS2 is located in stress fibers and in the nucleus. In cardiac muscle cells SORBS2 is located in the Z-disks of sarcomeres. It has been suggested that SORBS2 functions as an adapter protein to assemble signaling complexes in stress fibers, and that is a potential link between Abl kinases and the actin cytoskeleton.<sup>3,5</sup>

#### Reagent

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

Antibody Concentration: ~1.5 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 0.2-0.4 µg/mL is recommended using HEK-293T cell lysates expressing human SORBS2.

**Immunofluorescence:** a working antibody concentration of 20-40 µg/mL is recommended using HeLa cells.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

#### References

1. Kruh, G.D., et al., *Proc. Natl. Acad. Sci. USA*, **87**, 5802-5806 (1990).
2. Wang, B., et al., *J. Biol. Chem.*, **272**, 17542-17550 (1997).
3. Kioka, N., et al., *Cell Struct. Funct.*, **27**, 1-7 (2002).
4. Kawabe, H., et al., *J. Biol. Chem.*, **274**, 30914-30918 (1999).
5. Cestra, G., et al., *Proc. Natl. Acad. Sci. USA*, **102**, 1731-1736 (2005).

VS,ER,TD,KAA,PHC,MAM 08/19-1