Product Information

Anti-SORBS2 Antibody, Mouse Monoclonal

Clone S5C, Purified from Hybridoma Cell Culture

SAB4200183

Product Description

Monoclonal Anti-SORBS2 (mouse IgG1 isotype) is derived from the hybridoma S5C produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to C- terminal region of human SORBS2 (GeneID 8470), conjugated to KLH. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalogue Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-SORBS2 recognizes human, rat, mouse, dog and hamster SORBS2. The product may be used in several immunochemical techniques including immunoblotting (85 kDa), immunocytochemistry and immunoprecipitation. Staining of the SORBS2 band in immunoblotting is specifically inhibited with the immunizing peptide.

Arg and c-Abl are members of the Abelson family of protein-tyrosine kinases.[1] 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.[1-3] SORBS2 associates with and is a substrate ofArg 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.[4] SORBS2 is widely expressed in human tissues, and is 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.[3,5]

Reagent

The product is supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

Store at –20 °C. For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. 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 dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 2-4 µg/mL is recommended using HeLa or NRK or 3T3 total cell extracts.

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

References

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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. 5. Cestra, G., et al., *Proc. Natl. Acad. Sci. USA,* **102**, 1731-1736 (2005).

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