

Product Information

Monoclonal Anti-KHSRP, clone KS-8

produced in mouse, purified immunoglobulin

Catalog Number **SAB4200600**

Product Description

Monoclonal Anti-KHSRP (mouse IgG1 isotype) is derived from the hybridoma KS-8 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal sequence of human KHSRP (GeneID: 8570). 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-KHSRP recognizes human, cow, chicken, dog, hamster, rat and mouse KHSRP. The product may be used in several immunochemical techniques including immunoblotting (~ 82 kDa), immunocytochemistry and flow cytometry. Detection of the KHSRP band by immunoblotting is specifically inhibited by the immunizing peptide.

KH type-splicing regulatory protein, also known as KHSRP, KSRP and FBP2 is a single-strand nucleic acid binding protein originally identified as both an RNA-binding protein and a transcription factor that affects RNA fates at multiple levels including mRNA decay and alternative pre-mRNA splicing. In particular, it promotes the rapid decay of AU-rich element (ARE)-containing mRNAs, which include genes involved in cell proliferation, stress response and cancer.¹ KHSRP has been recently demonstrated to take part in the maturation of miRNAs, including miR-21, let-7f, miR-98, miR-196a and miR-27, which have proven to be overexpressed and to play an oncogenic role in breast cancer.² Furthermore, KHSRP is significantly modulated in response to BRCA1 expression, suggesting this factor may contribute to the BRCA1-associated tumor phenotype.³

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 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 concentration of 0.25-0.5 µg/mL is recommended using HEK-293T total cell extracts.

Immunofluorescence: a working concentration of 2.5-5 µg/mL is recommended using HEK-293T cells.

Flow Cytometry: a working dilution of 2-4 µg /test is recommended using HEK-293T cells.

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

References

1. Gherzi, R., et al., *Wiley Interdiscip. Rev. RNA*, **1**, 230-239 (2010).
2. Trabucchi, M., et al., *Nature*, **459**, 1010-1014. (2009).
3. Santarosa, M., et al., *Cell Cycle*, **9**, 4666-4673 (2010).

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