10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Esrp-2 (MOUSE) Monoclonal Antibody

Esrp-2 Antibody
Catalog # ASR4995

Specification

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Product Information

Host	**Mouse**
Conjugate	**Unconjugated**
Target Species	**Mouse**
Reactivity	**Mouse**
Clonality	**Monoclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Esrp-2 protein A purified antibody has been tested for use western blotting and ELISA. This antibody shows specific reactivity by with ESRP2 transfected cell lysates. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 77.4 kDa in size corresponding to Esrp-2 by western blotting in the appropriate cell lysate or extract. The antibody shows bands at ~77kD and 70kD and no reactivity is observed in cells transfected with GFP or ESRP1. A starting dilution of 1:1000 is suggested for western blotting.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-Esrp-2 is produced by repeated immunizations of full length recombinant mouse Esrp-2 fusion protein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Additional Information

Gene ID 77411

Other Names
77411

Purity
Anti-Esrp-2 is an IgG fraction antibody purified from tissue culture supernatant by Protein-A chromatography followed by extensive dialysis against the buffer stated above. This antibody reacts with mouse Esrp-2 protein. A BLAST analysis was used to suggest cross-reactivity with Esrp-2 from mouse based on a 100% homology with the immunizing sequence. Cross-reactivity with Esrp-2 from other sources has not been determined.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended

storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Protein Information

Name Esrp2

Synonyms Rbm35b

Function
mRNA splicing factor that regulates the formation of epithelial cell-specific isoforms. Specifically regulates the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2. Also regulates the splicing of CD44, CTNND1, ENAH, 3 transcripts that undergo changes in splicing during the epithelial-to-mesenchymal transition (EMT). Acts by directly binding specific sequences in mRNAs. Binds the GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region present in the mRNA of FGFR2 (By similarity).

Cellular Location
Nucleus.

Tissue Location
Epithelial cell-specific.

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Images

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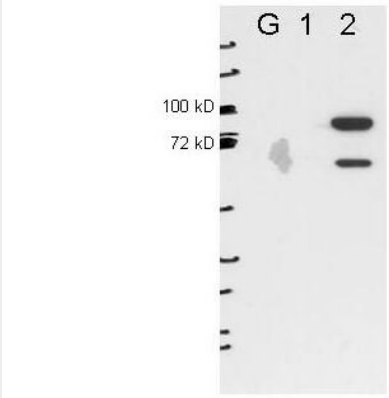

Anti-ESRP2 by western blot shows detection of ESRP2 in lane 2. Lane G: GFP-transfected-293T cell extract, Lane 1: ESRP1-transfected 293T cell extract, Lane 2: ESRP2-transfected 293T cell extract. Briefly, each lane contains approximately 5 µg of lysate. Primary antibody was used at a 1:1000 dilution (PBS-T plus milk) and reacted for O/N at 4C. The membrane was washed and reacted with a 1:10,000 dilution of an anti-mouse ECL antibody for 1hr at room temperature. The bands shown are full length FLAG-ESRP2 (~80kDa) and a slightly lower band that is specific to ESRP2. Molecular weight estimation was made by comparison to prestained MW markers.

Anti-Esrp-2 (MOUSE) Monoclonal Antibody - Background

Epithelial splicing regulatory protein 2 (Esrp-2) is an mRNA splicing factor that regulates the formation of epithelial cell-specific isoforms. It specifically regulates the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2, and also regulates the splicing of CD44, CTNND1, ENAH, 3 transcripts that undergo changes in splicing during the epithelial-to-mesenchymal transition (EMT). Esrp-2 acts by directly binding specific sequences in mRNAs. It binds the GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region present in the mRNA of FGFR2.