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Datasheet for 210-301-C32

Esrp-2 Antibody

Overview

Description:	Anti-Esrp-2 (MOUSE) Monoclonal Antibody - 210-301-C32
Item No.:	210-301-C32
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Mouse

Product Details

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.
Synonyms:	mouse anti-Esrp2 antibody, mouse anti-Esrp-2 antibody, RNA-binding protein 35B, RNA-binding motif protein 35B
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	22C5.H7.A6
Format:	IgG2a

Target Details

Gene Name:	Esrp2
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Esrp-2 is produced by repeated immunizations of full length recombinant mouse Esrp-2 fusion protein.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - Q8K0G8 • NCBI - NP_789808.1 • GeneID - 77411

Application Details

Tested Applications:	ELISA, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000
WB:	1:1000

Formulation

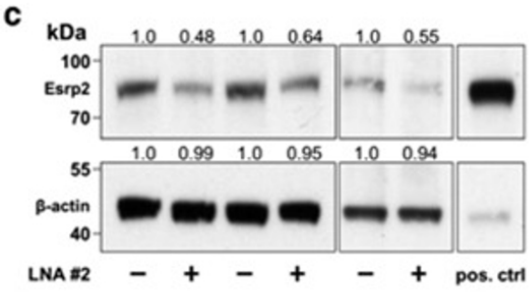
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

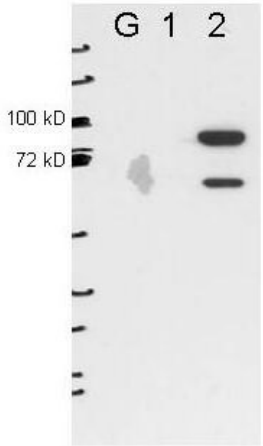
Shipping Condition:	Dry Ice

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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Knockdown of Esrp2-as reduces Esrp2 protein levels, globally alters expression of genes involved in cellular motility and inhibits cell proliferation. (c) Esrp2 protein expression in the M6 cell line 72 h after knockdown of Esrp2-as with LNA#2. M27H4 cells stably overexpressing Esrp2 were used as a positive control (pos. ctrl). Band intensities were normalized to β-actin levels and are semi-quantitatively evaluated relative to the negative control using TINA v2.09. Depicted is the mean±SD of three independent experiments. Statistical significance was assessed using a one-sample t-test with the neg. control set to 1.0, with *P <0.05. Fig 5.
PMID: 28759043



Western Blot
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.

References

- Heilmann et al. Genome-wide screen for differentially methylated long noncoding RNAs identifies Esrp2 and lncRNA Esrp2-as regulated by enhancer DNA methylation with prognostic relevance for human breast cancer. *Oncogene* (2017)

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