

Datasheet for ABIN964639

anti-ESRP1 antibody[Go to Product page](#)**1** Image**2** Publications

Overview

Quantity:	100 µg
Target:	ESRP1
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ESRP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Anti-Esrp-1 was produced by repeated immunizations of full length recombinant mouse Esrp-1 fusion protein. Immunogen Type: RecombinantProtein
Clone:	27H12-F3-H5
Isotype:	IgG2b kappa
Specificity:	This product 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-1 protein. A BLAST analysis of the immunizing protein sequence shows 100% homology with Esrp-1 from mouse and a 91% sequence homology with Esrp-1 from human, pig, rat, opossum, horse, cattle, panda, dog, and chimpanzee . The binding epitope of this monoclonal antibody has not been mapped.
Characteristics:	Epithelial splicing regulatory protein 1 (Esrp-1) is an mRNA splicing factor that regulates the

Product Details

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-1 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.

Purification:	purified
Sterility:	Sterile filtered

Target Details

Target:	ESRP1
Alternative Name:	Esrp-1 (ESRP1 Products)
Background:	<p>Epithelial splicing regulatory protein 1 (Esrp-1) 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-1 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.</p> <p>Synonyms: Rbm35a, Epithelial splicing regulatory protein 1, RNA-binding protein 35A, RNA-binding motif protein 35A.</p>
Gene ID:	207920
NCBI Accession:	NP_918944
UniProt:	Q3US41

Application Details

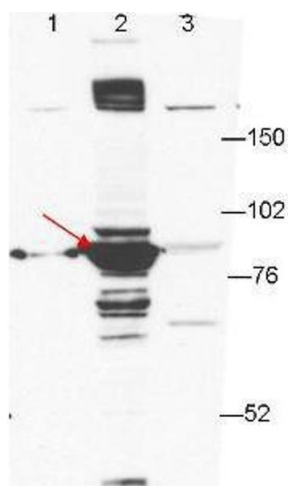
Application Notes:	This protein-A purified antibody has been tested for use western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 75.5 kDa in size corresponding to Esrp-1 by western blotting in the appropriate cell lysate or extract.
Comment:	Gene Name: Esrp1
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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 date is three (3) months from date of opening.
Expiry Date:	3 months

Publications

Product cited in:	<p>Ercan, Han, Di Nardo, Winden, Han, Hoyo, Saffari, Leask, Geschwind, Sahin: "Neuronal CTGF/CCN2 negatively regulates myelination in a mouse model of tuberous sclerosis complex." in: The Journal of experimental medicine, Vol. 214, Issue 3, pp. 681-697, (2017) (PubMed).</p> <p>Ko, Ko, Shieh, Chi, Chen, Chen, Yu, Yang, Chang: "Advanced glycation end products influence oral cancer cell survival via Bcl-xl and Nrf-2 regulation in vitro." in: Oncology letters, Vol. 13, Issue 5, pp. 3328-3334, (2017) (PubMed).</p> <p>van der Hoorn, de Haan, Berbée, Havekes, Jukema, Rensen, Princen: "Niacin increases HDL by reducing hepatic expression and plasma levels of cholesteryl ester transfer protein in APOE*3Leiden.CETP mice." in: Arteriosclerosis, thrombosis, and vascular biology, Vol. 28, Issue 11, pp. 2016-22, (2008) (PubMed).</p> <p>van der Hoogt, de Haan, Westerterp, Hoekstra, Dallinga-Thie, Romijn, Princen, Jukema, Havekes, Rensen: "Fenofibrate increases HDL-cholesterol by reducing cholesteryl ester transfer protein expression." in: Journal of lipid research, Vol. 48, Issue 8, pp. 1763-71, (2007) (PubMed).</p>
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Western Blotting

Image 1. Anti-ESRP-1 by western blot shows detection of ESRP-1 in transfected 293T cell extracts (lane 2, arrowhead). Lanes 1 and 3 contain GFP-transfected- and ESRP2-transfected 293T cell lysates, respectively. Briefly, each lane contains approximately 5 μ g of lysate. Primary antibody was used at a 1:1000 dilution in PBS-T plus milk, and reacted for 1hr at room temperature. The membrane was washed and reacted with a 1:10,000 dilution of an anti-mouse ECL antibody for 1hr at room temperature. Molecular weight estimation was made by comparison to prestained MW markers.