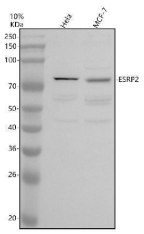
ESRP2 Antibody / Epithelial splicing regulatory protein 2 Antibody (FY13604)

Catalog No.	Formulation	Size
FY13604	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9H6T0
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	Intended solely for research purposes, this ESRP2 Antibody / Epithelial splicing regulatory protein 2 Antibody is not for clinical use.



ESRP2 Antibody by WB in human cell lines. Western blot analysis using Epithelial splicing regulatory protein 2 Antibody detects a prominent immunoreactive band near 78 kDa in HeLa (lane 1) and MCF-7 (lane 2) whole-cell lysates. The observed migration is compared with the calculated molecular weight of approximately 78 kDa. Reduced lysates containing 30 ug protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. After blocking with 5% nonfat milk, the membrane was incubated with primary antibody at 0.5 ug/mL overnight at 4oC, followed by HRP-conjugated secondary antibody and chemiluminescent detection.

Description

ESRP2 Antibody / Epithelial splicing regulatory protein 2 Antibody detects ESRP2, an RNA-binding protein that helps establish epithelial-specific patterns of alternative pre-mRNA splicing. Alternative splicing allows a single gene to produce multiple transcript variants by selecting different exon combinations. ESRP2 recognizes regulatory RNA elements and influences splice-site selection in transcripts involved in cell adhesion, polarity, and epithelial identity. Its functions overlap in part with those of ESRP1, but the two proteins can have distinct expression patterns and regulatory contributions.

Epithelial cells require coordinated control of junctional proteins, membrane receptors, and cytoskeletal regulators to

maintain tissue architecture. ESRP2 helps shape the isoforms of some of these proteins, influencing their interactions and biological behavior. The fibroblast growth factor receptor family provides a well-known example of epithelial versus mesenchymal splice-isoform regulation associated with ESRP proteins. These alternative isoforms can differ in ligand recognition and downstream signaling. ESRP2 therefore affects cellular properties through RNA processing rather than by directly altering the underlying DNA sequence. The designation Epithelial splicing regulatory protein 2 Antibody refers to the same gene product.

Changes in epithelial splicing programs are associated with epithelial-to-mesenchymal transitions, developmental remodeling, and tumor progression. ESRP2 expression and activity have been studied in these settings because shifts in splice isoforms can accompany changes in migration, differentiation, and cell-cell adhesion. The effects are transcript-specific and should not be reduced to a single universal outcome. NSJ Bioreagents includes ESRP2 among proteins that connect post-transcriptional gene regulation with the maintenance of epithelial cell identity. An ESRP2 Antibody can help contextualize the molecular functions and regulation of this protein.

Explore related research targets in our Developmental Biology Antibodies collection.

Application Notes

Users should optimize the working dilution of the ESRP2 Antibody / Epithelial splicing regulatory protein 2 Antibody for their specific experimental setup.

Immunogen

The ESRP2 Antibody was generated using e. coli-derived human ESRP2 recombinant protein (amino acids S93-P721).

Storage

Following reconstitution, the ESRP2 Antibody can be kept at 4oC for one month. Aliquot for extended storage at -20oC for up to six months, avoiding repeated freezing and thawing.

Alternate Names

ESRP2 antibody, Epithelial splicing regulatory protein 2 antibody, PP7059 antibody, RBM35B antibody, RNA binding motif protein 35B antibody, RNA binding protein 35B antibody, RNA-binding motif protein 35B antibody

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