

RBM35B Antibody

Catalog # ASC11284

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9H6T0
Other Accession	NP_079215 , 45935393
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	78401
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RBM35B antibody can be used for detection of RBM35B by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	80004
Other Names	Epithelial splicing regulatory protein 2, RNA-binding motif protein 35B, RNA-binding protein 35B, ESRP2, RBM35B
Target/Specificity	ESRP2; RBM35B antibody is predicted to not cross-react with other RBM35/ESRP family members. At least three isoforms of RBM35B are known to exist; this antibody will detect all three.
Reconstitution & Storage	RBM35B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	RBM35B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

Cellular Location	Nucleus.
Tissue Location	Epithelial cell-specific.

Background

RBM35B Antibody: RBM35A, also known as ESRP2, is a mRNA splicing factor that with its related protein RBM35A (ESRP1) are coordinators of an epithelial cell-type-specific splicing program. Both RBM35B and RBM35A are involved in posttranscriptional regulation of a number of genes such as FGFR2, CD44, CTNND1, and ENAH by exerting a differential effect on protein translation via 5' UTRs of mRNAs, suggesting that these proteins are global regulators of an epithelial regulatory network. Loss of this global ESRP-regulated epithelial splicing programme induces the phenotypic changes in cell morphology that are observed during the epithelial-mesenchymal transition.

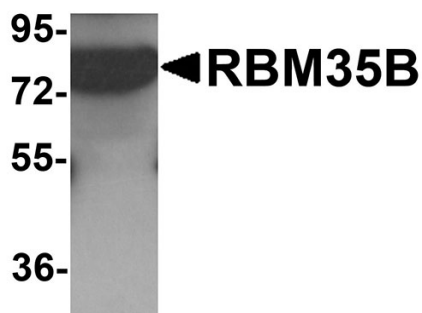
References

Warzecha CC, Sato TK, Nabet B, et al. ESRP1 and ESRP2 are epithelial cell-type-specific regulators of FGFR2 splicing. *Mol Cell*. 2009; 33:591-601.

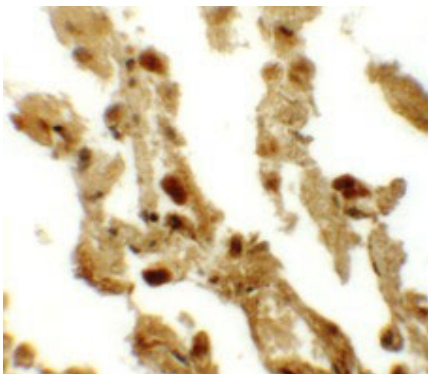
Warzecha CC, Jiang P, Amirikian K, et al. An ESRP-regulated splicing programme is abrogated during the epithelial-mesenchymal transition. *EMBO J*. 2010; 29:3286-300.

Warzecha CC, Shen S, Xing Y, et al. The epithelial splicing factors ESRP1 and ESRP2 positively and negatively regulate diverse types of alternative splicing events. *RNA Biol*. 2009; 6:546-62.

Images

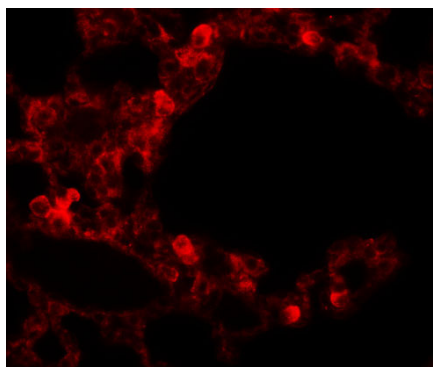


Western blot analysis of RBM35B in human lung tissue lysate with RBM35B antibody at 1 µg/mL.



Immunohistochemistry of RBM35B in human lung tissue with RBM35B antibody at 5 µg/mL.

Immunofluorescence of RBM35B in human lung tissue cells with RBM35B antibody at 20 µg/mL.



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