

**RBM35A Antibody**  
Catalog # ASC11283**Specification****RBM35A Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O6NXG1</a>
Other Accession	<a href="#">NP_001030087</a> , <a href="#">56790297</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	RBM35A antibody can be used for detection of RBM35A by Western blot at 0.5 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

**RBM35A Antibody - Additional Information**

Gene ID 54845

**Target/Specificity**

ESRP1; RBM35A antibody is predicted to not cross-react with other RBM35/ESRP family members. At least five isoforms of RBM35A are known to exist; this antibody will detect all five.

**Reconstitution & Storage**

RBM35A 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**

RBM35A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RBM35A Antibody - Protein Information**

Name ESRP1

Synonyms RBM35A

**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 (PubMed:<a href="http://www.uniprot.org/citations/19285943" target="\_blank">19285943</a>). Regulates splicing and expression of genes involved in inner

ear development, auditory hair cell differentiation, and cell fate specification in the cochlear epithelium (By similarity).

#### Cellular Location

Nucleus.

#### Tissue Location

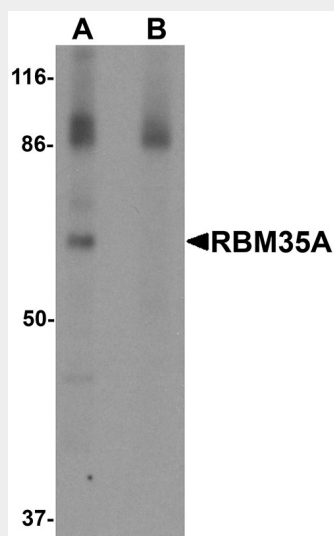
Epithelial cell-specific.

### RBM35A Antibody - Protocols

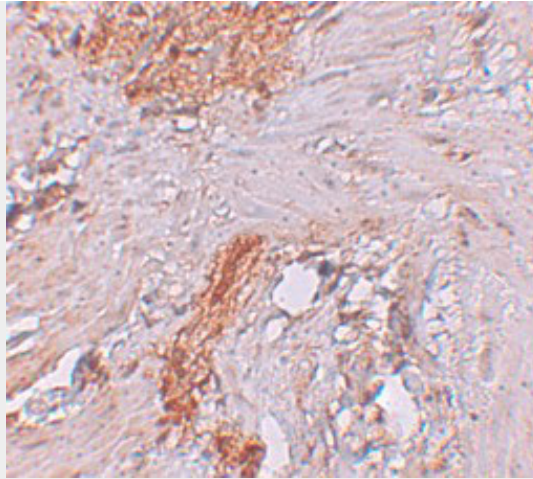
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

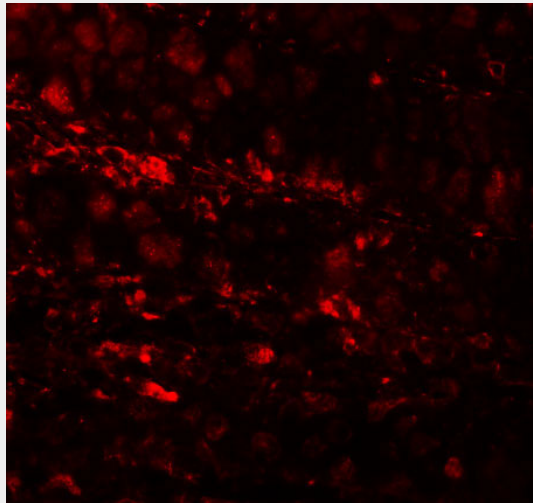
### RBM35A Antibody - Images



Western blot analysis of RBM35A in rat colon tissue lysate with RBM35A antibody at 0.5  $\mu\text{g}/\text{mL}$  in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of RBM35A in human colon tissue with RBM35A antibody at 2.5 µg/mL.



Immunofluorescence of RBM35A in human colon tissue cells with RBM35A antibody at 20 µg/mL.

### **RBM35A Antibody - Background**

**RBM35A Antibody:** RBM35A, also known as ESRP1, is a mRNA splicing factor that with its related protein RBM35B (ESRP2) are coordinators of an epithelial cell-type-specific splicing program. RBM35A contains three putative RNA recognition motifs and acts by directly binding specific sequences in mRNAs. RBM35A is 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. Other recent studies have shown that RBM35A may also act as a novel tumor suppressor.

### **RBM35A Antibody - References**

- 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.
- Leontieva OV and Ionov Y. RNA-binding motif protein 35A is a novel tumor suppressor for colorectal cancer. *Cell Cycle* 2009; 8:490-7.
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