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RBM35A Antibody
Catalog # ASC11283

Specification

RBM35A Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q6NXG1
Other Accession	NP_001030087, 56790297
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℃ for three months and -20℃, 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:19285943). 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.

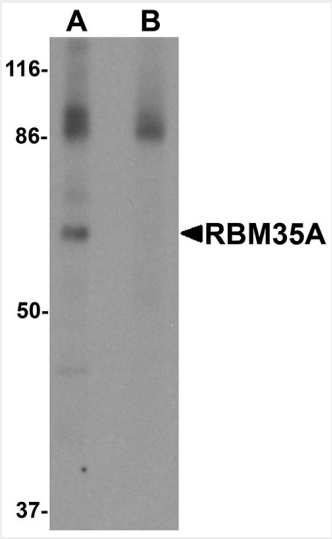
Tissue Location
Epithelial cell-specific.

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 Cytomety
- Cell Culture

RBM35A Antibody - Images



Western blot analysis of RBM35A in rat colon tissue lysate with RBM35A antibody at 0.5 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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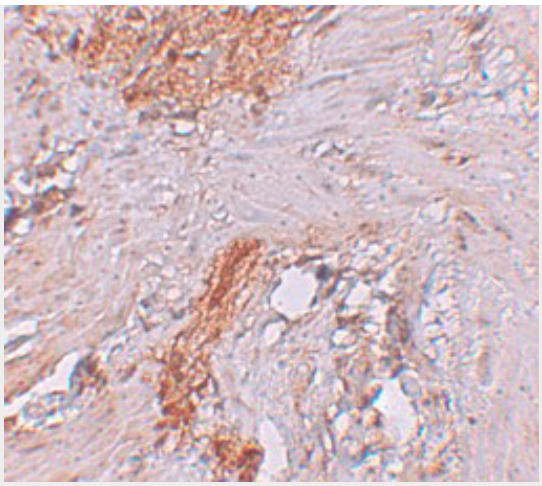
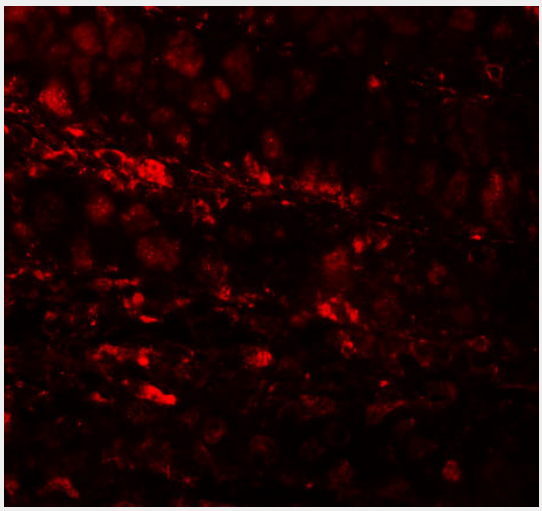


Immunohistochemistry of RBM35A in human colon tissue with RBM35A antibody at 2.5 µg/mL.



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 RMB35A 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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