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RBM47 Rabbit pAb

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Catalog # AP57657

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	A0AV96
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64099
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RBM47
Epitope Specificity	351-450/593
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	54502
Other Names	RNA-binding protein 47, RNA-binding motif protein 47 {ECO:0000312|HGNC:HGNC:30358}, RBM47 (HGNC:30358)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RBM47 (HGNC:30358)
Function	Single-stranded RNA-binding protein that functions in a variety of RNA processes, including alternative splicing, RNA stabilization, and RNA editing (PubMed:24038582, PubMed:24916387, PubMed:27050523, PubMed:30844405, PubMed:31358901, PubMed:34160127). Functions as an enzyme-substrate adapter for the cytidine deaminase APOBEC1. With APOBEC1 forms an mRNA editing complex involved into cytidine to uridine

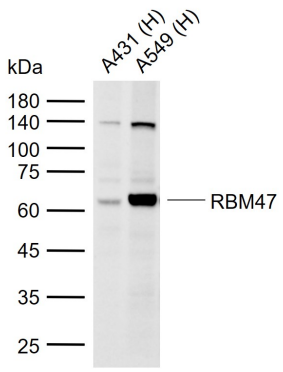
editing of a variety of mRNA molecules (PubMed:24038582, PubMed:24916387, PubMed:30844405). Through the binding of their 3'UTR, also stabilizes a variety of mRNAs and regulates the expression of genes such as the interferon alpha/beta receptor and interleukin-10 (PubMed:34160127). Also involved in the alternative splicing of several genes including TJP1. Binds the pre- mRNA (U)GCAUG consensus sequences in downstream intronic regions of alternative exons, regulating their exclusion and inclusion into mRNAs (PubMed:27050523, PubMed:31358901). Independently of its RNA-binding activity, could negatively regulate MAVS by promoting its lysosomal degradation (By similarity).

Cellular Location Nucleus. Cytoplasm

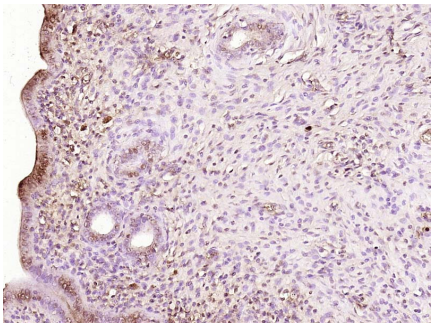
Background

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Images



Sample:
Lane 1: Human A431 cell lysates
Lane 2: Human A549 cell lysates
Primary: Anti-RBM47 (AP57657) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 , 57 kDa
Observed band size: 62 kDa



Paraformaldehyde-fixed, paraffin embedded (Rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RBM47) Polyclonal Antibody, Unconjugated (AP57657) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.