

**RBM47 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57657****Specification**

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**RBM47 Polyclonal Antibody - Product Information**

Application	IHC-P, WB
Primary Accession	<a href="#">A0AV96</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64099

**RBM47 Polyclonal Antibody - Additional Information****Gene ID** 54502**Other Names**

RNA-binding protein 47, RNA-binding motif protein 47, RBM47

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**RBM47 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/24038582" target="\_blank">24038582</a>, PubMed:<a href="http://www.uniprot.org/citations/24916387" target="\_blank">24916387</a>, PubMed:<a href="http://www.uniprot.org/citations/27050523" target="\_blank">27050523</a>, PubMed:<a href="http://www.uniprot.org/citations/30844405" target="\_blank">30844405</a>, PubMed:<a href="http://www.uniprot.org/citations/31358901" target="\_blank">31358901</a>, PubMed:<a href="http://www.uniprot.org/citations/34160127" target="\_blank">34160127</a>). 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:<a href="http://www.uniprot.org/citations/24038582" target="\_blank">24038582</a>, PubMed:<a href="http://www.uniprot.org/citations/24916387" target="\_blank">24916387</a>, PubMed:<a href="http://www.uniprot.org/citations/30844405" target="\_blank">30844405</a>). 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:<a href="http://www.uniprot.org/citations/34160127" target="\_blank">34160127</a>). 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:<a href="http://www.uniprot.org/citations/27050523" target="\_blank">27050523</a>, PubMed:<a href="http://www.uniprot.org/citations/31358901" target="\_blank">31358901</a>). Independently of its RNA-binding activity, could negatively regulate MAVS by promoting its lysosomal degradation (By similarity).

#### **Cellular Location**

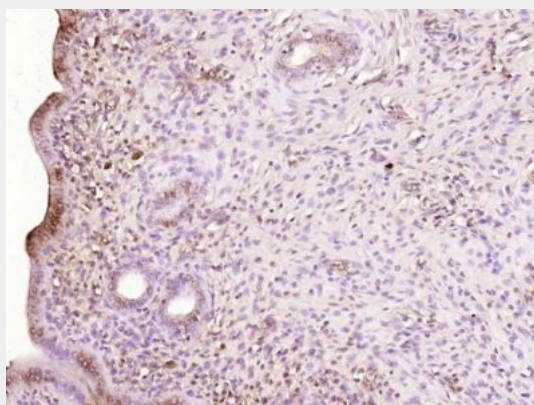
Nucleus. Cytoplasm

#### **RBM47 Polyclonal Antibody - Protocols**

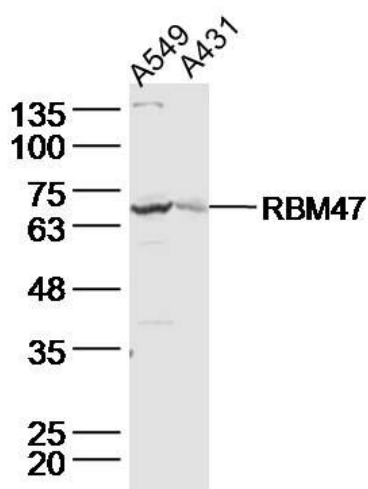
Provided below are standard protocols that you may find useful for product applications.

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

#### **RBM47 Polyclonal Antibody - Images**



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 (bs-19774R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

**Sample:**

A549 Cell (Human) Lysate at 40 ug

A431 Cell (Human) Lysate at 40 ug

Primary: Anti-RBM47 (bs-19774R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57/64 kD

Observed band size: 68 kD