

**RBM15 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54849****Specification**

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**RBM15 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">Q96T37</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107189

**RBM15 Polyclonal Antibody - Additional Information****Gene ID** 64783**Other Names**

RNA-binding protein 15, One-twenty two protein 1, RNA-binding motif protein 15, RBM15  
{ECO:0000303|PubMed:11431691, ECO:0000312|HGNC:HGNC:14959}

**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.

**RBM15 Polyclonal Antibody - Protein Information****Name** RBM15 {ECO:0000303|PubMed:11431691, ECO:0000312|HGNC:HGNC:14959}**Function**

RNA-binding protein that acts as a key regulator of N6- methyladenosine (m6A) methylation of RNAs, thereby regulating different processes, such as hematopoietic cell homeostasis, alternative splicing of mRNAs and X chromosome inactivation mediated by Xist RNA (PubMed:<a href="http://www.uniprot.org/citations/27602518" target="\_blank">27602518</a>). Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing (By similarity). Plays a key role in m6A methylation, possibly by binding target RNAs and recruiting the WMM complex (PubMed:<a href="http://www.uniprot.org/citations/27602518" target="\_blank">27602518</a>). Involved in random X inactivation mediated by Xist RNA: acts by binding Xist RNA and recruiting the WMM complex, which mediates m6A methylation, leading to target YTHDC1 reader on Xist RNA and promoting transcription repression activity of Xist (PubMed:<a href="http://www.uniprot.org/citations/27602518" target="\_blank">27602518</a>). Required for the development of multiple tissues, such as the maintenance of the homeostasis of long-term hematopoietic stem cells and for megakaryocyte (MK) and B-cell differentiation (By similarity). Regulates megakaryocyte differentiation by regulating alternative splicing of genes

important for megakaryocyte differentiation; probably regulates alternative splicing via m6A regulation (PubMed:<a href="http://www.uniprot.org/citations/26575292" target="\_blank">26575292</a>). Required for placental vascular branching morphogenesis and embryonic development of the heart and spleen (By similarity). Acts as a regulator of thrombopoietin response in hematopoietic stem cells by regulating alternative splicing of MPL (By similarity). May also function as an mRNA export factor, stimulating export and expression of RTE-containing mRNAs which are present in many retrotransposons that require to be exported prior to splicing (PubMed:<a href="http://www.uniprot.org/citations/17001072" target="\_blank">17001072</a>, PubMed:<a href="http://www.uniprot.org/citations/19786495" target="\_blank">19786495</a>). High affinity binding of pre-mRNA to RBM15 may allow targeting of the mRNP to the export helicase DBP5 in a manner that is independent of splicing-mediated NXF1 deposition, resulting in export prior to splicing (PubMed:<a href="http://www.uniprot.org/citations/17001072" target="\_blank">17001072</a>, PubMed:<a href="http://www.uniprot.org/citations/19786495" target="\_blank">19786495</a>). May be implicated in HOX gene regulation (PubMed:<a href="http://www.uniprot.org/citations/11344311" target="\_blank">11344311</a>).

#### **Cellular Location**

Nucleus speckle. Nucleus, nucleoplasm. Nucleus envelope. Nucleus membrane; Peripheral membrane protein. Note=Colocalizes at the nuclear pore with DBP5 and NXF1.

#### **RBM15 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](#)

#### **RBM15 Polyclonal Antibody - Images**