

**ILF3 Rabbit mAb**  
**Catalog # AP75614****Specification**

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**ILF3 Rabbit mAb - Product Information**

Application	WB, IHC-P, IHC-F, IP, ICC
Primary Accession	<a href="#">Q12906</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	95338

**ILF3 Rabbit mAb - Additional Information****Gene ID** 3609**Other Names**

ILF3

**Dilution**

WB~~1/500-1/1000

IHC-P~~N/A

IHC-F~~N/A

IP~~N/A

ICC~~N/A

**Format**

Liquid

**ILF3 Rabbit mAb - Protein Information****Name** ILF3**Synonyms** DRBF, MPHOSPH4, NF90**Function**

RNA-binding protein that plays an essential role in the biogenesis of circular RNAs (circRNAs) which are produced by back-splicing circularization of pre-mRNAs. Within the nucleus, promotes circRNAs processing by stabilizing the regulatory elements residing in the flanking introns of the circularized exons. Plays thereby a role in the back-splicing of a subset of circRNAs (PubMed:<a href="http://www.uniprot.org/citations/28625552" target="\_blank">28625552</a>). As a consequence, participates in a wide range of transcriptional and post-transcriptional processes. Binds to poly-U elements and AU-rich elements (AREs) in the 3'-UTR of target mRNAs (PubMed:<a href="http://www.uniprot.org/citations/14731398" target="\_blank">14731398</a>). Upon viral infection, ILF3 accumulates in the cytoplasm and participates in the innate antiviral response (PubMed:<a href="http://www.uniprot.org/citations/21123651" target="\_blank">21123651</a>, PubMed:<a href="http://www.uniprot.org/citations/34110282" target="\_blank">34110282</a>). Mechanistically, ILF3 becomes phosphorylated and activated by the double-stranded

RNA-activated protein kinase/PKR which releases ILF3 from cellular mature circRNAs. In turn, unbound ILF3 molecules are able to interact with and thus inhibit viral mRNAs (PubMed:<a href="http://www.uniprot.org/citations/21123651" target="\_blank">21123651</a>, PubMed:<a href="http://www.uniprot.org/citations/28625552" target="\_blank">28625552</a>).

#### Cellular Location

Nucleus, nucleolus. Cytoplasm. Nucleus. Note=Localizes in the cytoplasm in response to viral infection. The unphosphorylated form is retained in the nucleus by ILF2. Phosphorylation at Thr-188 and Thr-315 causes the dissociation of ILF2 from the ILF2-ILF3 complex resulting in a cytoplasmic sequestration of ILF3. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

#### Tissue Location

Ubiquitous.

#### ILF3 Rabbit mAb - 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](#)

#### ILF3 Rabbit mAb - Images



