

# ILF3 Rabbit mAb

Catalog # AP75614

## Product Information

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

## Additional Information

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<b>Gene ID</b>	3609
<b>Other Names</b>	ILF3
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A ICC~~N/A
<b>Format</b>	Liquid

## Protein Information

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<b>Name</b>	ILF3
<b>Synonyms</b>	DRBF, MPHOSPH4, NF90
<b>Function</b>	<p>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="#">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="#">14731398</a>). Upon viral infection, ILF3 accumulates in the cytoplasm and participates in the innate antiviral response (PubMed:<a href="#">21123651</a>, PubMed:<a href="#">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="#">21123651</a>, PubMed:<a href="#">28625552</a>).</p>
<b>Cellular Location</b>	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

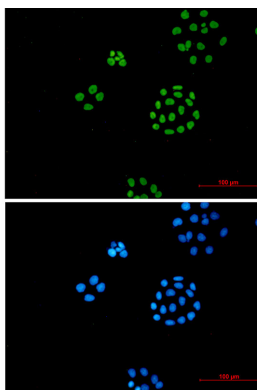
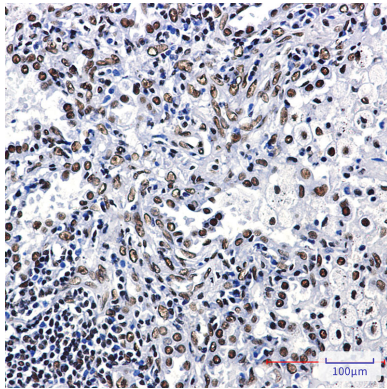
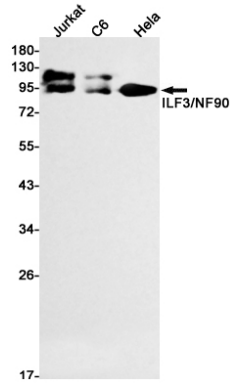
sequestration of ILF3. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

**Tissue Location**

Ubiquitous.

**Images**

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