SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-IFIT1 antibody

Catalog Number: SL15553R

FOR RESEARCH USE ONLY

[DATASHEET]

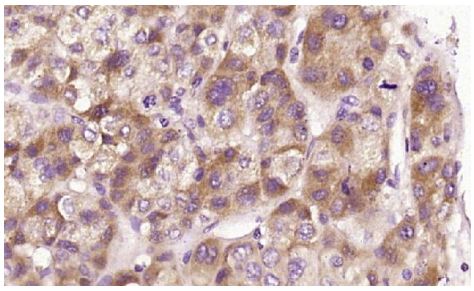
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	IFIT1
Immunogen:	KLH conjugated synthetic peptide derived from human IFIT1 : 201-300/478
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	55kDa
Subcellular Location:	cytoplasmic
Background:	This gene encodes a protein containing tetratricopeptide repeats that was originally identified as induced upon treatment with interferon. The encoded protein may inhibit viral replication and translational initiation. This gene is located in a cluster on chromosome 10 with five other closely related genes. There is a pseudogene for this gene on chromosome 13. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Aug 2012] **Function:** Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger RNAs. Single-stranded PPP-RNAs, which lack 2'-O-methylation of the 5' cap and bear a 5'-triphosphate group instead, are specific from viruses, providing a molecular signature to distinguish between

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	self and non-self mRNAs by the host during viral infection. Directly binds PPP-RNA in a non-sequence-specific manner. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Exhibits antiviral activity against several viruses including human papilloma and hepatitis C viruses. **Subunit:** Component of an interferon-dependent multiprotein complex, at least composed of IFIT1, IFIT2 and IFIT3. Interacts (via TPR repeats 4-7) with EEF1A1 (By similarity). Interacts with EIF3C (By similarity). Interacts with IFIT2 and IFIT3. Interacts (via TPR repeats 1-4) with RPL15. Interacts with TMEM173/MITA and disrupts its interaction with MAVS or TBK1. Interacts with EIF3E. Interacts (via TPR repeat 2) with E1 proteins of HPV types 11, 18 and 3 and this interaction blocks E1 helicase activity and viral replication. **Subcellular Location:** Cytoplasm. **Post-translational modifications:** Phosphorylated. **Similarity:** Belongs to the IFIT family. Contains 10 TPR repeats. **Database links:** **Entrez Gene:** 3434 Human Omim: 147690 Human **SwissProt:** P09914 Human **Unigene:** 20315 Human

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); 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 (IFIT1) Polyclonal Antibody, Unconjugated (SL15553R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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