

### IFIT1 Antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # Al16108

### **Specification**

### IFIT1 Antibody - C-terminal region - Product Information

Application WB
Primary Accession P09914
Other Accession NP\_001539
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 52kDa KDa

## IFIT1 Antibody - C-terminal region - Additional Information

**Gene ID 3434** 

Alias Symbol
Other Names

IFIT1, G10P1, IFI56, IFNAI1, ISG56,

Interferon-induced protein with tetratricopeptide repeats 1, IFIT-1, Interferon-induced 56 kDa protein, IFI-56K, P56, IFIT1, G10P1, IFI56, IFNAI1, ISG56

#### **Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

#### **Reconstitution & Storage**

Add 50 &mu, I of distilled water. Final Anti-IFIT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

# **Precautions**

IFIT1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

# IFIT1 Antibody - C-terminal region - Protein Information

# Name IFIT1

Synonyms G10P1, IFI56, IFNAI1, ISG56

#### **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 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.

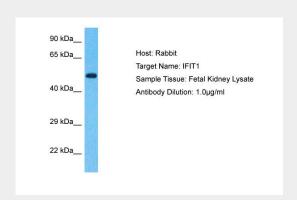
**Cellular Location** Cytoplasm

# **IFIT1 Antibody - C-terminal region - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# IFIT1 Antibody - C-terminal region - Images



Host: Rabbit Target Name: IFIT1

Sample Tissue: Fetal Kidney lysates

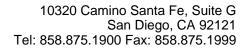
Antibody Dilution: 1.0µg/ml

### IFIT1 Antibody - C-terminal region - Background

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 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.

# **IFIT1 Antibody - C-terminal region - References**

Wathelet M., et al. Eur. J. Biochem. 155:11-17(1986). Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.





Ota T.,et al.Nat. Genet. 36:40-45(2004). Deloukas P.,et al.Nature 429:375-381(2004). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.