

# IFIT3 antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # Al12645

## **Specification**

## IFIT3 antibody - N-terminal region - Product Information

Application WB, IHC Primary Accession 014879

Other Accession <u>NM 001031683</u>, <u>NP 001026853</u>

Reactivity

Human, Mouse, Rat, Rabbit, Pig, Bovine

Human, Mouse, Rat, Rabbit, Pig, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 56kDa KDa

#### IFIT3 antibody - N-terminal region - Additional Information

**Gene ID 3437** 

Alias Symbol CIG-49, GARG-49, IFI60, IFIT4, IRG2, ISG60,

**RIG-G** 

#### **Other Names**

Interferon-induced protein with tetratricopeptide repeats 3, IFIT-3, CIG49, ISG-60, Interferon-induced 60 kDa protein, IFI-60K, Interferon-induced protein with tetratricopeptide repeats 4, IFIT-4, Retinoic acid-induced gene G protein, P60, RIG-G, IFIT3, CIG-49, IFI60, IFIT4, ISG60

#### **Format**

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

## **Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-IFIT3 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**

IFIT3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## IFIT3 antibody - N-terminal region - Protein Information

#### Name IFIT3

Synonyms CIG-49, IFI60, IFIT4, ISG60

## **Function**

IFN-induced antiviral protein which acts as an inhibitor of cellular as well as viral processes, cell migration, proliferation, signaling, and viral replication. Enhances MAVS-mediated host antiviral responses by serving as an adapter bridging TBK1 to MAVS which leads to the activation of TBK1





and phosphorylation of IRF3 and phosphorylated IRF3 translocates into nucleus to promote antiviral gene transcription. Exhibits an antiproliferative activity via the up-regulation of cell cycle negative regulators CDKN1A/p21 and CDKN1B/p27. Normally, CDKN1B/p27 turnover is regulated by COPS5, which binds CDKN1B/p27 in the nucleus and exports it to the cytoplasm for ubiquitin-dependent degradation. IFIT3 sequesters COPS5 in the cytoplasm, thereby increasing nuclear CDKN1B/p27 protein levels. Up-regulates CDKN1A/p21 by down-regulating MYC, a repressor of CDKN1A/p21. Can negatively regulate the apoptotic effects of IFIT2.

#### **Cellular Location**

Cytoplasm. Mitochondrion

#### **Tissue Location**

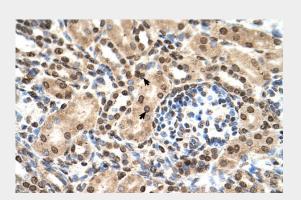
Expression significantly higher in peripheral blood mononuclear cells (PBMCs) and monocytes from systemic lupus erythematosus (SLE) patients than in those from healthy individuals (at protein level). Spleen, lung, leukocytes, lymph nodes, placenta, bone marrow and fetal liver.

## IFIT3 antibody - N-terminal region - Protocols

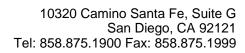
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

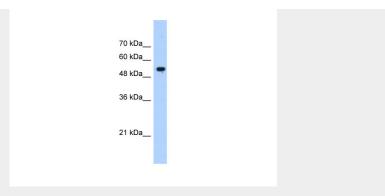
## IFIT3 antibody - N-terminal region - Images



### Human kidney







WB Suggested Anti-IFIT3 Antibody Titration: 0.25µg/ml

Positive Control: HepG2 cell lysate