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IFIT3 Rabbit pAb

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Catalog # AP56027

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O14879
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55985
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IFIT3
Epitope Specificity	101-200/490
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Mitochondrion.
SIMILARITY	Belongs to the IFIT family.Contains 8 TPR repeats.
SUBUNIT	Component of an interferon-dependent multiprotein complex, at least composed of IFIT1, IFIT2 and IFIT3. Interacts with IFIT1 and IFIT2. Interacts (via N-terminus) with MAVS, TBK1, TRAF6 and DDX58. Interacts with COPS5.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	3437
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
Target/Specificity	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.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.