Recombinant Human Interferon-induced protein with tetratricopeptide repeats 3(IFIT3)

Catalog No: #AP70420

Package Size: #AP70420-1 20ug #AP70420-2 100ug #AP70420-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human Interferon-induced protein with tetratricopeptide repeats 3(IFIT3)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-490aaSequence Info:Full Length
Other Names	CIG49ISG-60Interferon-induced 60KDA protein ;IFI-60KInterferon-induced protein with tetratricopeptide repeats 4 ;IFIT-4Retinoic acid-induced gene G protein ;P60 ;RIG-G
Accession No.	O14879
Calculated MW	72 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSEVTKNSLEKILPQLKCHFTWNLFKEDSVSRDLEDRVCNQIEFLNTEFKATMYNLLAYIKHLDGNNEAALECL RQAEELIQQEHADQAEIRSLVTWGNYAWVYYHLGRLSDAQIYVDKVKQTCKKFSNPYSIEYSELDCEEGWTQ LKCGRNERAKVCFEKALEEKPNNPEFSSGLAIAMYHLDNHPEKQFSTDVLKQAIELSPDNQYVKVLLGLKLQK MNKEAEGEQFVEEALEKSPCQTDVLRSAAKFYRRKGDLDKAIELFQRVLESTPNNGYLYHQIGCCYKAKVRQ MQNTGESEASGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFLETECYQTPFNKEVPDAEKQQSHQR YCNLQKYNGKSEDTAVQHGLEGLSISKKSTDKEEIKDQPQNVSENLLPQNAPNYWYLQGLIHKQNGDLLQAA KCYEKELGRLLRDAPSGIGSIFLSASELEDGSEEMGQGAVSSSPRELLSNSEQLN
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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. Exihibits 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. Upregulates CDKN1A,p21 by downregulating MYC, a repressor of CDKN1A,p21. Can negatively regulate the apoptotic effects of IFIT2.

References

Use of differential display analysis to assess the effect of human cytomegalovirus infection on the accumulation of cellular RNAs induction of interferon-responsive RNAs.Zhu H., Cong J.-P., Shenk T.Proc. Natl. Acad. Sci. U.S.A. 94:13985-13990(1997)Research Topic:Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.