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IFI-56K Recombinant Rabbit mAb

Catalog # AP100296

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P09914
Other Accession	P09914
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	55360
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the IFIT family.Contains 10 TPR repeats.
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.
Post-translational modifications	Phosphorylated.
Background Descriptions	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],

Additional Information

Gene ID	3434
Other Names	C56; G10P1; IFI-56; IFI-56K; IFI56; IFIT-1; IFNAI1; ISG56; P56; RNM561; IFIT1_HUMAN; IFIT1; Interferon-induced 56 kDa protein (IFI-56K | P56); Interferon-induced protein with tetratricopeptide repeats 1; interferon induced protein with tetratricopeptide repeats 1; interferon-induced 56 kDa protein
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
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	IFIT1 (HGNC:5407)
Function	Plays a key role in the innate immune response as part of an interferon-dependent multiprotein complex, recognizing and sequestering viral RNAs that lack host-specific 2'-O-methylation at their 5' cap. By distinguishing these RNAs from host mRNAs, inhibits their translation by competing with the translation initiation factor eIF4E (PubMed:21642987, PubMed:27240734, PubMed:39009378, PubMed:23334420, PubMed:28251928, PubMed:36285486). Could also prevent viral replication through its interaction with DNA replication origin-binding protein E1 of several viruses. Causes the translocation of E1 from the nucleus to the cytoplasm and can also inhibit its helicase activity in vitro (PubMed:19008854, PubMed:21976647). Exhibits antiviral activity against many viruses from the Flaviviridae (West Nile virus, Dengue virus, hepatitis C virus), Coronaviridae (human 229E coronavirus, SARS-CoV-2 and SARS-CoV), Poxviridae (vaccinia virus) and Togaviridae (Sindbis virus) families (PubMed:19008854, PubMed:21976647, PubMed:28251928, PubMed:36285486).
Cellular Location	Cytoplasm

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