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IFIT5 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13709

Product Information

Application	WB
Primary Accession	Q13325
Other Accession	NM_012420, NP_036552
Reactivity	Human, Mouse, Rat, Pig, Dog, Horse, Bovine
Predicted	Human, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55847

Additional Information

Gene ID	24138
Alias Symbol	RI58
Other Names	Interferon-induced protein with tetratricopeptide repeats 5, IFIT-5, Interferon-induced 58 kDa protein, Retinoic acid- and interferon-inducible 58 kDa protein, P58, IFIT5, ISG58, RI58
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-IFIT5 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	IFIT5 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IFIT5
Synonyms	ISG58, RI58
Function	Interferon-induced RNA-binding protein involved in the human innate immune response. Has a broad and adaptable RNA structure recognition important for RNA recognition specificity in antiviral defense. Binds precursor and processed tRNAs as well as poly-U-tailed tRNA fragments (PubMed:23317505, PubMed:23774268, PubMed:25092312). Specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded 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 (PubMed:23334420). Also recognizes and selectively binds AT-rich dsDNA (PubMed:23774268). Additionally, as a mediator in innate immunity, positively regulates IKK-NFKB signaling by sinergizing the recruitment of IKK to MAP3K7 (PubMed:26334375).

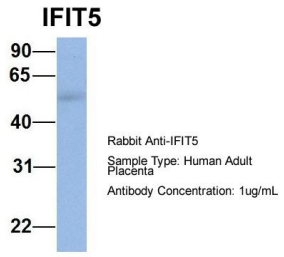
Cellular Location

Cell projection, ruffle membrane. Note=Colocalized with RIGI at cell surface ruffles. Localizes to actin-rich protrusions from the apical cell surface

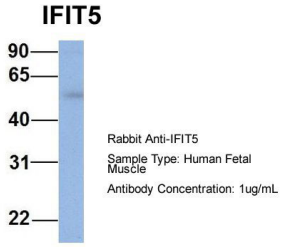
References

Niikura T.,et al.Blood Cells Mol. Dis. 23:337-349(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Deloukas P.,et al.Nature 429:375-381(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Host: Rabbit
Target Name: CHAD
Sample Tissue: Human Adult Placenta
Antibody Dilution: 1.0µg/ml



Host:Rabbit
Target Name:IFIT5
Sample Tissue:Human Fetal Muscle
Antibody Dilution: 1.0µg/ml