10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IFIT5 Antibody

Catalog # AP53904

Product Information

Application	WB
Primary Accession	Q13325
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55847

Additional Information

Gene ID	24138
Other Names	ISG58; RI58; Interferon-induced protein with tetratricopeptide repeats 5; IFIT-5; Interferon-induced 58 kDa protein; Retinoic acid- and interferon-inducible 58 kDa protein; P58
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IFIT5. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

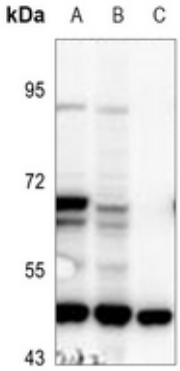
Name	IFIT5
Synonyms	ISG58, RI58
Function	Interferon-induced RNA-binding protein involved in the human innate immune response. Has a broad and adaptable RNA structure recognition important for RNA recognition specificity in antiviral defense. Binds precursor and processed tRNAs as well as poly-U-tailed 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

Images



Western blot analysis of IFIT5 expression in U87MG (A), A549 (B), mouse brain (C) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 50 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.