ARG66715
anti-IFIT1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IFIT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IFIT1
Species	Human
Immunogen	KLH-conjugated synthetic peptide around the N-terminal region of Human IFIT1.
Conjugation	Un-conjugated
Alternate Names	IFI-56; C56; IFIT-1; ISG56; Interferon-induced 56 kDa protein; IFNAI1; IFI-56K; Interferon-induced protein with tetratricopeptide repeats 1; G10P1; P56; IFI56; RNM561

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:1000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Sodium citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 58 kDa

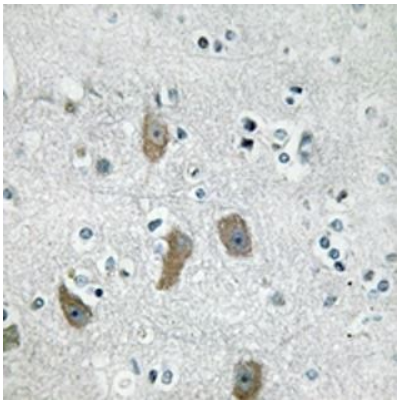
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.42% Potassium phosphate (pH 7.3), 0.87% NaCl, 0.01% Sodium azide and 30% Glycerol.
Preservative	0.01% Sodium azide
Stabilizer	30% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

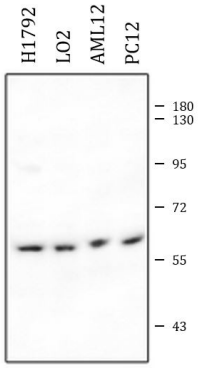
Gene Symbol	IFIT1
Gene Full Name	interferon-induced protein with tetratricopeptide repeats 1
Background	This gene encodes a protein containing tetratricopeptide repeats that was originally identified as induced upon treatment with interferon. The encoded protein may inhibit viral replication and translational 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]
Function	Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger 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. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Exhibits antiviral activity against several viruses including human papilloma and hepatitis C viruses. [UniProt]
Calculated Mw	55 kDa
PTM	Phosphorylated. ISGylated. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG66715 anti-IFIT1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue section. Antigen Retrieval: Heat mediation was performed in Sodium citrate buffer (pH 6.0). The section was stained with ARG66715 anti-IFIT1 antibody at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



ARG66715 anti-IFIT1 antibody WB image

Western blot: H1792, LO2, AML12 and PC12 whole cell lysates stained with ARG66715 anti-IFIT1 antibody.