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Anti-IFIT1 Antibody
Rabbit polyclonal antibody to IFIT1
Catalog # AP61202

Specification

Anti-IFIT1 Antibody - Product Information

Application	**WB, IH**
Primary Accession	P09914
Other Accession	Q64282
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**55360**

Anti-IFIT1 Antibody - Additional Information

Gene ID 3434

Other Names
G10P1; IFI56; IFNAI1; ISG56; Interferon-induced protein with tetratricopeptide repeats 1; IFIT-1; Interferon-induced 56 kDa protein; IFI-56K; P56

Target/Specificity
Recognizes endogenous levels of IFIT1 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)
IH~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-IFIT1 Antibody - Protein Information

Name IFIT1

Synonyms G10P1, IFI56, IFNAI1, ISG56

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.

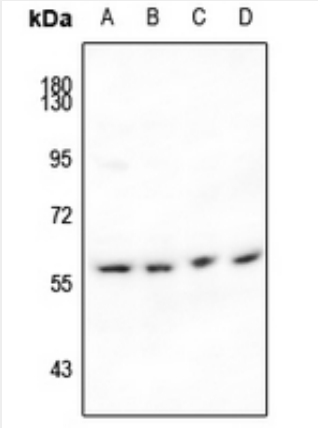
Cellular Location
Cytoplasm

Anti-IFIT1 Antibody - Protocols

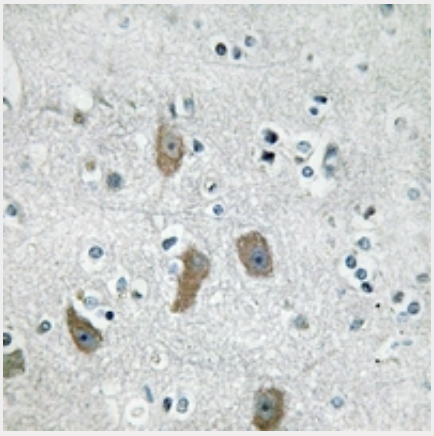
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IFIT1 Antibody - Images



Western blot analysis of IFIT1 expression in H1792 (A), LO2 (B), AML12 (C), PC12 (D) whole cell lysates.



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Immunohistochemical analysis of IFIT1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-IFIT1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human IFIT1. The exact sequence is proprietary.