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

Specification

Anti-IFIT1 Antibody - Product Information

Application	**WB, IHC**
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)
IHC~~1:100~500

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 (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:<a

href="http://www.uniprot.org/citations/23334420" target="_blank">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).

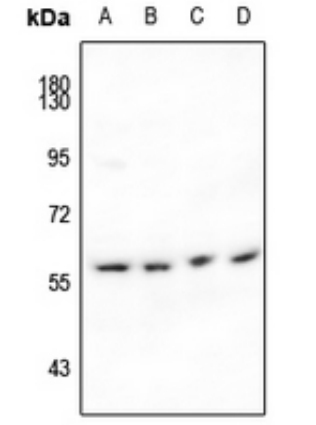
Cellular Location
Cytoplasm

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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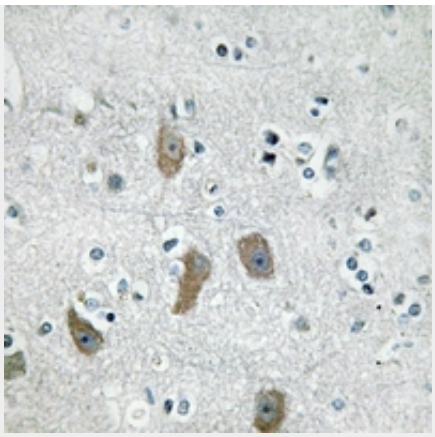

Immunohistochemical analysis of IFIT1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using 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.