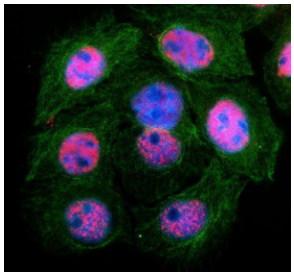
IFI35 Antibody / Interferon-Induced Protein 35 Polyclonal Antibody (FY13691)

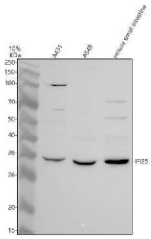
Catalog No.	Formulation	Size
FY13691	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

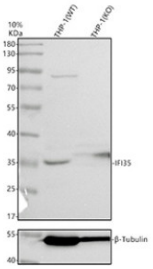
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9NV92
Localization	Cytoplasm, Nucleus
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This IFI35 Antibody / Interferon-Induced Protein 35 Polyclonal Antibody is available for research use only.



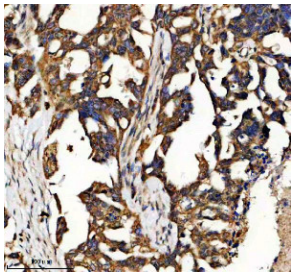
IFI35 Antibody IF Staining of Human A431 Cells. Immunofluorescence analysis of human A431 cells using Interferon-Induced Protein 35 Polyclonal Antibody (red, Cy3) and an Alpha Tubulin antibody (green, Fluoro488). IFI35 immunoreactivity is visualized in red, while Alpha Tubulin staining highlights the cytoskeletal network in green. Nuclei are counterstained with DAPI (blue). Enzyme-mediated antigen retrieval was performed for 15 minutes, followed by blocking with 10% goat serum and overnight incubation with primary antibodies at 4oC.



IFI35 Antibody WB Analysis of A431, A549 and Mouse Small Intestine Lysates. Western blot analysis of human A431 (lane 1), human A549 (lane 2), and mouse small intestine tissue lysates (lane 3) using Interferon-Induced Protein 35 Polyclonal Antibody. An immunoreactive band is detected near 35 kDa in all three samples, consistent with the established apparent molecular weight of IFI35. The calculated molecular weight of the protein is approximately 31.5 kDa.



IFI35 Antibody WB Analysis of THP-1 Wild-Type and IFI35 Knockout Cells. Western blot analysis of human THP-1 wild-type (WT) and IFI35 knockout (KO) cell lysates using Interferon-Induced Protein 35 Polyclonal Antibody. An immunoreactive band near 35 kDa is detected in WT cells but is absent in IFI35 KO cells, supporting recognition of the IFI35 protein. An additional band near 37 kDa is observed in the KO sample. Beta-tubulin serves as the loading control.



IFI35 Antibody IHC Staining of Human Ovarian Carcinoma. Immunohistochemical analysis of FFPE human ovarian carcinoma tissue using Interferon-Induced Protein 35 Polyclonal Antibody at 2 ug/ml. Brown DAB immunoreactivity is observed in tumor cells, with predominantly cytoplasmic staining and a heterogeneous distribution throughout the tissue. Heat-induced epitope retrieval was performed using EDTA buffer at pH 8, followed by blocking with 10% goat serum and overnight primary antibody incubation at 4oC.

Description

IFI35 Antibody / Interferon-Induced Protein 35 Polyclonal Antibody targets interferon-induced protein 35 (IFI35), also known as IFP35, a member of the interferon-stimulated gene family involved in innate immune regulation. Encoded by the IFI35 gene, this protein is induced by interferon signaling and participates in cellular responses to viral infection, inflammation, and immune activation. IFI35 functions primarily through interactions with other signaling proteins and can influence the production of type I interferons and inflammatory cytokines. Its regulatory activities depend on cellular conditions, interacting partners, and the nature of the immune stimulus.

IFI35 contains an N-terminal leucine zipper-like region and two conserved NMI/IFI35 homology domains, designated NID1 and NID2. These domains facilitate protein-protein interactions, including association with N-myc and STAT interactor (NMI). Formation of the IFI35-NMI complex contributes to protein stability and the regulation of interferon-dependent signaling. IFI35 can also interact with components of antiviral recognition pathways, including retinoic acid-inducible gene I (RIG-I). Depending on the viral system, these interactions may enhance or suppress antiviral responses by influencing the activity and stability of signaling proteins.

IFI35 is found predominantly in the cytoplasm but can also localize to the nucleus under certain conditions. Beyond its intracellular regulatory functions, IFI35 can be released into the extracellular environment during cellular injury or immune activation. Extracellular IFI35 has been identified as a damage-associated molecular pattern (DAMP) capable of stimulating inflammatory responses through Toll-like receptor 4 (TLR4) and NF-kappaB signaling. This activity can promote cytokine production and amplify inflammatory processes, connecting IFI35 with both antiviral defense and tissue injury responses.

Altered IFI35 expression and activity have been investigated in viral infections, autoimmune disorders, and inflammatory diseases. Its ability to influence interferon production, macrophage activation, and inflammatory signaling makes it an important regulator of immune homeostasis. The biological consequences of IFI35 activity vary according to its intracellular or extracellular localization and the signaling pathways engaged. IFI35 Antibody supports investigations of

interferon-regulated immune responses, antiviral signaling mechanisms, protein interactions, and the contribution of inflammatory mediators to disease.

IFI35 participates in interferon-regulated innate immune responses and inflammatory signaling, making it relevant to studies of antiviral defense, immune regulation, and cellular responses to infection.

Application Notes

Optimal dilution of the IFI35 Antibody / Interferon-Induced Protein 35 Polyclonal Antibody should be determined by the researcher.

Immunogen

E. Coli-derived human Interferon-Induced Protein 35 recombinant protein (amino acids K38-G286) was used as the immunogen for the IFI35 Antibody.

Storage

After reconstitution, the IFI35 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

IFP35 antibody, Interferon-induced 35 kDa protein antibody, Interferon-induced protein 35 antibody, Interferon-inducible protein 35 antibody, IFI-35 antibody, IFN-induced protein 35 antibody, Interferon-stimulated protein 35 antibody, IFP-35 antibody

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