

Rabbit anti-Human IFI16 Polyclonal Antibody | anti-IFI16 antibody

IFI16 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324741	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

IFI16; Polyclonal Antibody; IFI16 Antibody; Gamma interferon inducible protein 16; Gamma-interferon-inducible protein Ifi16; IF16_HUMAN; Ifi204; IFNGIP1; interferon activated gene 204; Interferon gamma induced protein IFI 16; Interferon gamma inducible protein 16; Interferon-inducible myeloid differentiation transcriptional activator; p204; PYHIN2; anti-IFI16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	IFI16 antibody detects endogenous levels of total IFI16
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	729
Applicable Applications for anti-IFI16 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Cytoplasm. Note: Cellular distribution is dependent on the acetylation status of the multipartite nuclear localization signal (NLS); NLS acetylation promotes cytoplasmic localization.
Tissue Specificity	Expressed in peripheral blood leukocytes, fibroblasts and lymphoid cells. Present in myeloid precursors (CD34+) and throughout monocyte development, but its expression is down-regulated in erythroid and polymorphonuclear precursor cells. Present in prostate, ovary and breast (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324741 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells using IFI16 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-IFI16 antibody

Function: Binds double-stranded DNA. Binds preferentially to supercoiled DNA and cruciform DNA structures. Seems to be involved in transcriptional regulation. May function as a transcriptional repressor. Could have a role in the regulation of hematopoietic differentiation through activation of unknown target genes. Controls cellular proliferation by modulating the functions of cell cycle regulatory factors including p53/TP53 and the retinoblastoma protein. May be involved in TP53-mediated transcriptional activation by enhancing TP53 sequence-specific DNA binding and modulating TP53 phosphorylation status. Seems to be involved in energy-level-dependent activation of the ATM/AMPK/TP53 pathway coupled to regulation of autophagy. May be involved in regulation of TP53-mediated cell death also involving BRCA1. May be involved in the senescence of prostate epithelial cells. Involved in innate immune response by recognizing viral dsDNA in the cytosol and probably in the nucleus. After binding to viral DNA in the cytoplasm recruits TMEM173/STING and mediates the induction of IFN-beta. Has anti-inflammatory activity and inhibits the activation of the AIM2 inflammasome, probably via association with AIM2. Proposed to bind viral DNA in the nucleus, such as of Kaposi's sarcoma-associated herpesvirus, and to induce the formation of nuclear caspase-1-activating inflammasome formation via association with PYCARD. Inhibits replication of herpesviruses such as human cytomegalovirus (HCMV) probably by interfering with promoter recruitment of members of the Sp1 family of transcription factors. Necessary to activate the IRF3 signaling cascade during human herpes simplex virus 1 (HHV-1) infection and promotes the assembly of heterochromatin on herpesviral DNA and inhibition of viral immediate-early gene expression and replication. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer.

Subunit Structure: Forms homooligomers; isoform 2 can self-associate or associate with isoform 1 or isoform 3. Interacts with TMEM173, AIM2, PYCARD and CASP1. Interacts with BRCA1, TP53, E2F1, RB1 and SP1. Interacts with MTA1.

Post-translational Modifications: Ubiquitinated by human herpes simplex virus 1 (HHV-1) ICP0 protein; leading to degradation by the proteasome. Lysine acetylation in the multipartite nuclear localization signal (NLS) regulates the subcellular location. In vitro can be acetylated by p300/EP300 coupled to cytoplasmic localization. Phosphorylated on Ser and Thr. Isoform 3 seems to show a minor degree of complex carbohydrate addition.

Similarity: The HIN-20 domains mediates dsDNA binding via electrostatic interactions. Belongs to the HIN-200 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	330864753
NCBI GeneID	3428
NCBI Accession #	NP_001193496.1
NCBI GenBank Nucleotide #	NM_001206567.1
UniProt Accession #	Q16666; Q59GX0; Q5T3W7; Q5T3W8; Q5T3X0; Q5T3X1; Q5T3X2; Q8N9E5; Q8NEQ7; Q96AJ5; B4DJT8; H3BLV7
Molecular Weight	Observed: 88 kD Predicted: 89 kDa
NCBI Official Full Name	gamma-interferon-inducible protein 16 isoform 1
NCBI Official Synonym Full Names	interferon gamma inducible protein 16
NCBI Official Symbol	IFI16

NCBI Official Synonym Symbols	PYHIN2; IFNGIP1
NCBI Protein Information	gamma-interferon-inducible protein 16
UniProt Protein Name	Gamma-interferon-inducible protein 16
UniProt Gene Name	IFI16
UniProt Synonym Gene Names	IFNGIP1; Ifi-16

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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