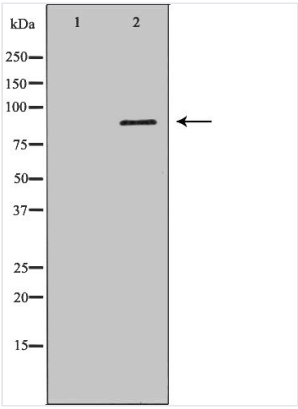
IFI16 Antibody – Rabbit Polyclonal

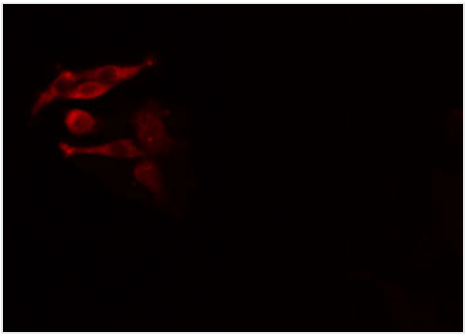
PRODUCT OVERVIEW

Product Name	IFI16, Polyclonal Antibody
Full Product Name	IFI16 Antibody
Product Gene Name	anti-IFI16 antibody
Product Synonym Names	IFI16; 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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	IFI16 antibody detects endogenous levels of total IFI16
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	IFI16 peptide (MBS9626122) is used for blocking the activity of IFI16 antibody (MBS9607406)
Molecular Weight	88kDa
3D Structure	ModBase 3D Structure for Q16666
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human IFI16, corresponding to a region within C-terminal amino acids.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IFI16 antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-IFI16 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
Related Product Information for anti-IFI16 antibody	This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Similarity: The HIN-20 domains mediates dsDNA binding via electrostatic interactions. Belongs to the HIN-200 family.

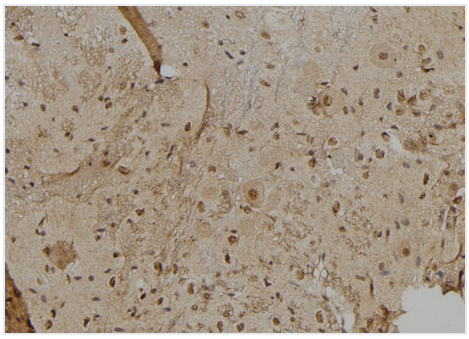
Other Notes	Small volumes of anti-IFI16 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IFI16 purchase	MBS9607406 is an antibody targeting IFI16. Also known as IFI16 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-IFI16 antibody
Western blot analysis of Hela cell lysate, using IFI16 Antibody. The lane on the left is treated with the antigen-specific peptide.



Immunofluorescene (IF) of anti-IFI16 antibody
MBS9607406 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.



Immunohistochemistry (IHC) of anti-IFI16 antibody
MBS9607406 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IFI16. It may not necessarily be applicable to this product.

NCBI GI #	330864753
NCBI GeneID	3428
NCBI Accession #	NP_001193496.1
UniProt Primary Accession #	Q16666
UniProt Secondary Accession #	Q59GX0; Q5T3W7; Q5T3W8; Q5T3X0; Q5T3X1; Q5T3X2; Q8N9E5; Q8NEQ7; Q96AJ5; B4DJT8; H3BLV7
UniProt Related Accession #	Q16666
GenBank Nucleotide #	NM_001206567.1
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
UniProt Protein Name	Gamma-interferon-inducible protein 16
UniProt Synonym Protein Names	Interferon-inducible myeloid differentiation transcriptional activator
Protein Family	Gamma-interferon-inducible protein
UniProt Gene Name	IFI16
UniProt Synonym Gene Names	IFNGIP1; Ifi-16
NCBI Protein Information	gamma-interferon-inducible protein 16
NCBI Summary for IFI16	This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]
UniProt Comments for IFI16	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.
Research Articles on IFI16	**1.** Interferon-gamma induced protein IFI16 is a unique host factor protein involved in the EBV lifecycle. Reduction of IFI16 protein levels following lytic cycle induction, as well as reactivation from latency after IFI16 mRNA knockdown suggests that IFI16 is crucial for the maintenance of EBV latency.
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