SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-IFI16 Monoclonal Antibody

Catalog Number: SLA1101M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Clone No.:	5C9
GeneID:	3428
SWISS:	Q16666
Target:	IFI16
Immunogen:	KLH conjugated synthetic peptide derived from human IFI16
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	86 kDa
Subcellular Location:	Nucleus
Background:	Interferon (IFN) Inducible 16 (IFI16) protein belongs to a family of HIN 200 human and mouse proteins. IFI16 is a nuclear protein comtaining regulatory domains such as DNA binding domain, transcriptional regulatory domain and DAPIN/PAAD domain. IFI16 has three isotypes A, B, and C (85-95 kDa), which arise as a result of mRNA alternative splicing. All are phosphorylated on serine and threonine residues and can homo and heterodimerize. Expression is restricted to the nuclei of hematopoietic cells, fibroblasts and epithelial cells. IFI16 expression in hematopoietic cells of myeloid lineage is tightly regulated and highly induced in the differentiation

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	and proliferation of the cell. Due to its localization in the nucleus, regulation of protein expression, and ability to bind DNA, it is assumed that IFI16 has a role in transcription regulation of cell differentiation. In addition, it was found that IFI16 can act as a transcriptional repressor and is involved in regulation and activation of p53 in cancer cells.

[VALIDATION IMAGES]

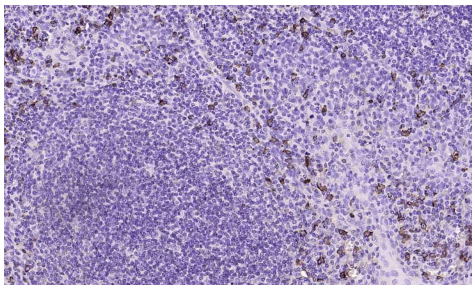


Figure 1. Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (IFI16) Monoclonal Antibody, Unconjugated (SLA1101M) at 1:300 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining

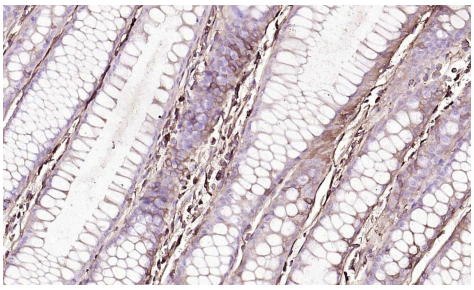


Figure 2. Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (IFI16) Monoclonal Antibody, Unconjugated (SLA1101M) at 1:300 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining

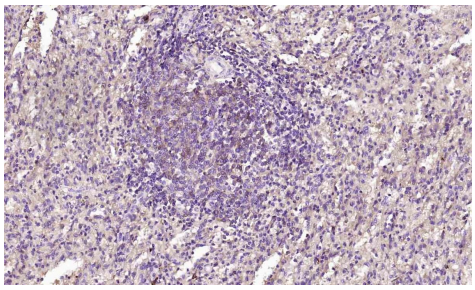


Figure 3. Paraformaldehyde-fixed, paraffin embedded (human spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (IFI16) Monoclonal Antibody, Unconjugated (SLA1101M) at 1:300 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining
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