



Rabbit Anti-IFITM1 antibody

SL1031R

Product Name:	IFITM1
Chinese Name:	Interferon诱导Transmembrane protein1抗体
Alias:	CD225; CD225 antigen; CD 225; CD-225; IFI17; Interferon induced protein 17; Interferon induced transmembrane protein 1; Interferon inducible protein 9-27; Interferon-induced protein 17; Interferon-induced transmembrane protein 1; Interferon-inducible protein 9-27; Leu 13 antigen; Leu-13 antigen; LEU13; IFM1_HUMAN; Dispanin subfamily A member 2a; DSPA2a.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	11.7kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human IFITM1:58-86/125<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	IFITM1 expression is induced by interferons alpha and gamma and it is thought to play a role in control of cell growth. It is upregulated in several tumor types and may be useful

as a tumor biomarker.

Function:

IFN-induced antiviral protein that mediate cellular innate immunity to at least three major human pathogens, namely influenza A H1N1 virus, West Nile virus, and dengue virus by inhibiting the early step(s) of replication. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activation or by arresting cell growth in G1 phase in a p53-dependent manner. Implicated in the control of cell growth. Component of a multimeric complex involved in the transduction of antiproliferative and homotypic adhesion signals.

Subunit:

Interacts with CAV1; this interaction enhances the ability of CAV1 in inhibiting ERK activation.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Post-translational modifications:

Palmitoylation on membrane-proximal cysteines controls clustering in membrane compartments and antiviral activity against influenza virus.

Similarity:

Belongs to the CD225 family.

SWISS:

P13164

Gene ID:

8519

Database links:

[Entrez Gene: 8519](#) Human

[Entrez Gene: 68713](#) Mouse

[Entrez Gene: 293618](#) Rat

[Oimim: 604456](#) Human

[SwissProt: P13164](#) Human

[SwissProt: Q9D103](#) Mouse

[Unigene: 458414](#) Human

[Unigene: 175661](#) Mouse

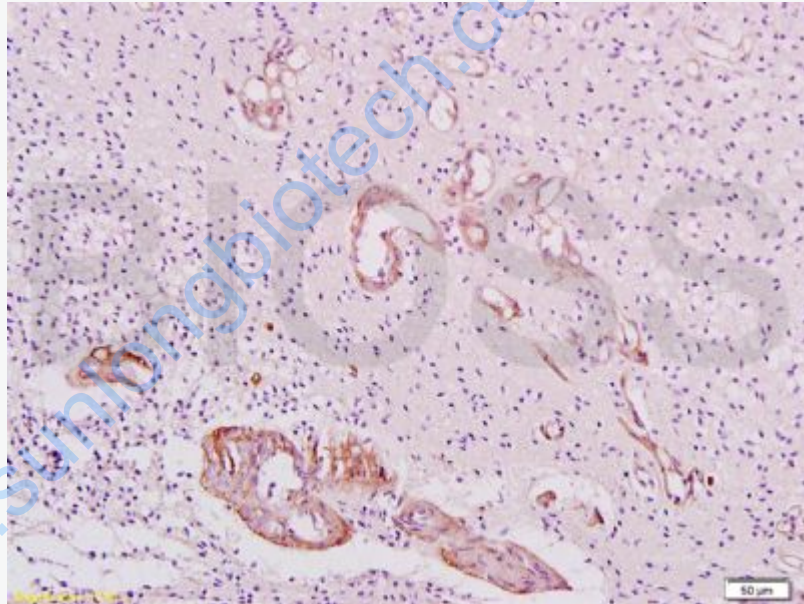
[Unigene: 22087](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

IFITM1蛋白是蛋白复合物的组分之一,主要功能是参与同型粘附和抗增殖信号的转导,与细胞增殖、Tumour分化、抗病毒、免疫监视等有关。IFITM-1主要用于消化系统Tumour方面的研究,有学者认为:Interferon诱导Transmembrane protein1与Interferon结合,可以抑制Tumour细胞的分化和增值。

Picture:

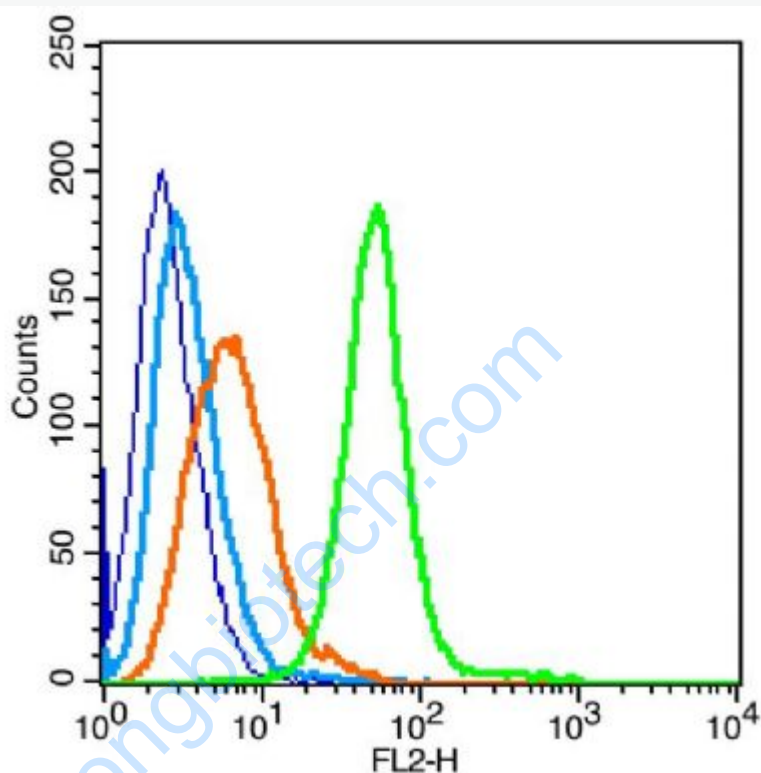


Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-IFITM1/CD225 Polyclonal Antibody, Unconjugated(SL1031R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-

0023) and DAB(C-0010) staining



Blank control: Raji (blue).

Primary Antibody: Rabbit Anti-IFITM1 antibody(SL1031R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange),used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) . Primary antibody (SL1031R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein

interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.

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