ARG56844
anti-IFITM1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IFITM1
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IFITM1
Species	Human
Immunogen	Synthetic peptide (16 aa) within aa. 40-90 of Human IFITM1.
Conjugation	Un-conjugated
Alternate Names	9-27; DSPA2a; Leu-13 antigen; Dispanin subfamily A member 2a; Interferon-induced protein 17; Interferon-induced transmembrane protein 1; LEU13; CD antigen CD225; IFI17; CD225; Interferon-inducible protein 9-27

Application Instructions

Application table

Application	Dilution
ICC/IF	20 µg/ml
WB	1 - 2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: NIH-3T3 cell lysate

Properties

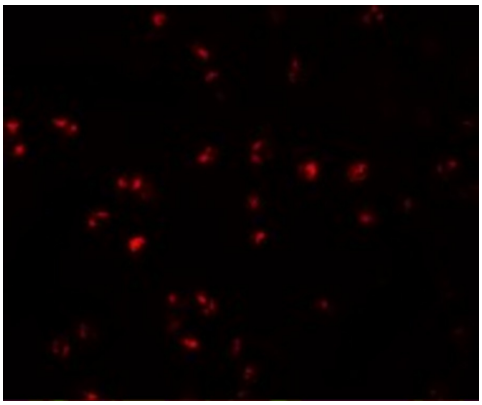
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide.
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

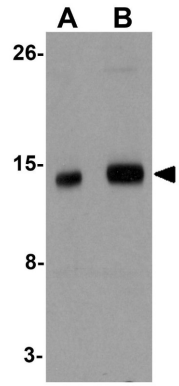
Database links	GeneID: 68713 Mouse GeneID: 8519 Human Swiss-port # P13164 Human Swiss-port # Q9D103 Mouse
Gene Symbol	IFITM1
Gene Full Name	interferon induced transmembrane protein 1
Function	IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm, permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into the cytosol. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV), Ebola virus (EBOV), Dengue virus (DNV), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1) and hepatitis C virus (HCV). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV S protein-mediated viral entry. Also implicated in cell adhesion and control of cell growth and migration. 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. Acts as a positive regulator of osteoblast differentiation. [UniProt]
Calculated Mw	14 kDa
PTM	Palmitoylation on membrane-proximal cysteines controls clustering in membrane compartments and antiviral activity against influenza virus.

Images



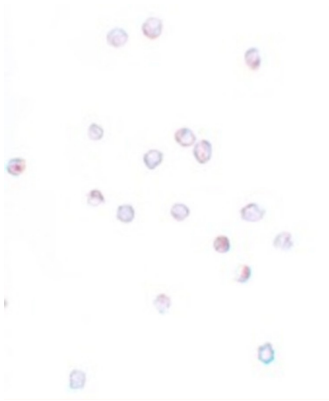
ARG56844 anti-IFITM1 antibody ICC/IF image

Immunofluorescence: Jurkat cells stained with ARG56844 anti-IFITM1 antibody at 20 µg/ml dilution.



ARG56844 anti-IFITM1 antibody WB image

Western blot: 3T3 cell lysate stained with ARG56844 anti-IFITM1 antibody at (A) 1 and (B) 2 µg/ml dilution.



ARG56844 anti-IFITM1 antibody ICC/IF image

Immunocytochemistry: Jurkat cells stained with ARG56844 anti-IFITM1 antibody at 20 µg/ml dilution.