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Datasheet for 600-401-BT5

IFITM1 Antibody

Overview

Description:	Anti-IFITM1 (RABBIT) Antibody - 600-401-BT5
Item No.:	600-401-BT5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	IFITM1 (Interferon inducible transmembrane protein 1) is a member of the IFN-inducible transmembrane protein family. It is an essential mediator of interferon-gamma-induced antiproliferation and plays a role in the control of cell growth. IFITM1 is upregulated in several tumor types and may be useful as a tumor biomarker. Both mouse IFITM1 and IFITM3 are expressed on the cell surfaces of primordial germ cells in a developmentally-regulated manner. IFITM1 activity is required for primordial germ cell transit, and IFITM1 acts as a repulsive molecule by repelling non-IFITM1-expressing primordial germ cells from the mesoderm into the endoderm.
Synonyms:	IFITM1 Antibody, 9-27, CD225, IFI17, LEU13, DSPA2a, Interferon-induced transmembrane protein 1, Dispanin subfamily A member 2a
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IFITM1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IFITM1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the internal region of human IFITM1.
Purity/Specificity:	Anti-IFITM1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IFITM1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P13164 • GeneID - 8519 • NCBI - NP_003632

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IFITM1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 14 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1-2 µg/mL

Formulation

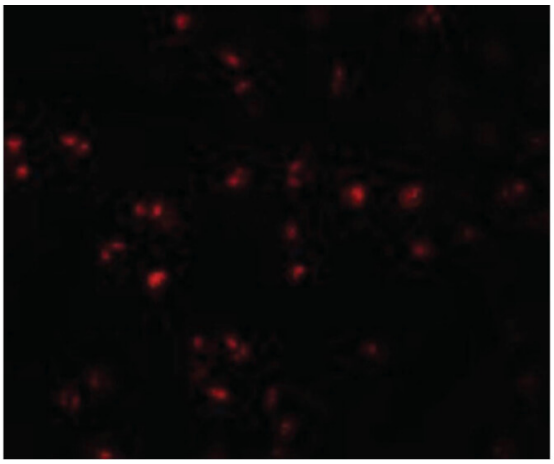
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

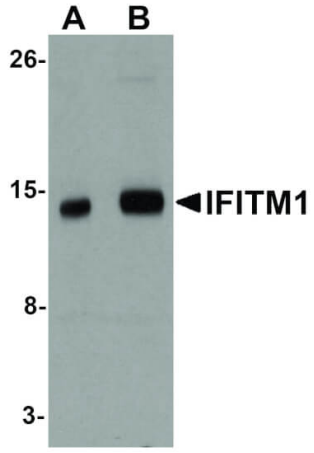
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

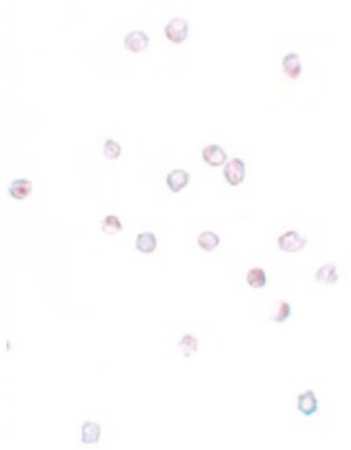
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of IFITM1 antibody. Tissue: Jurkat cell. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IFITM1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IFITM1 is a membrane protein. Staining: IFITM1 as red fluorescent signal.



Western Blot
Western Blot of IFITM1 antibody. Lane 1: 3T3 cell lysate with IFITM1 antibody at 1 µg/mL. Lane 2: 3T3 cell lysate with IFITM1 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 14 kDa, 14 kDa for IFITM1. Other band(s): IFITM1 splice variants and isoforms.



Immunohistochemistry
Immunocytochemistry of IFITM1 antibody. Tissue: Jurkat cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IFITM1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IFITM1 is a membrane protein. Staining: IFITM1 as precipitated blue signal with pink nuclear counterstain.

Disclaimer

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