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Datasheet for 600-401-BT5

# IFITM1 Antibody

## Overview

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| **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

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| **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

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

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| **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<br>• GeneID - 8519<br>• NCBI - NP_003632 |

## Application Details

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| **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

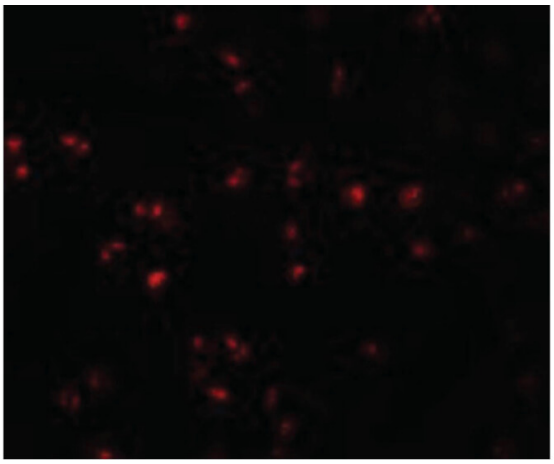
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:**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

## Shipping & Handling

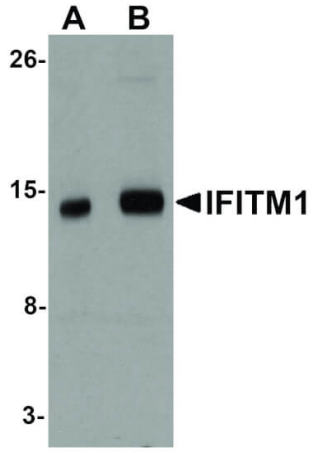
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| **Shipping Condition:** | Dry Ice |

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| **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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