



Product Information Sheet

Polyclonal Anti-IFITM1

Catalogue No. PA1112

Lot No. 01110121012126

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human

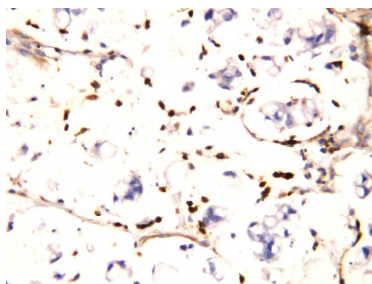
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human IFITM1, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

Western blot

At 1µg/ml with the appropriate system to detect IFITM1 in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect IFITM1 in formalin fixed and paraffin embedded tissues. Boiling the sections is required.

Immunohistochemistry(F) Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

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BACKGROUND

Interferon-induced Transmembrane Protein 1 (IFITM1), also called Interferon-induced Protein 17 (IFI17). IFITM1 activity is required for primordial germ cells (PGCs) transit from the mesoderm into the endoderm, and that it appears to act via a repulsive mechanism, such that PGCs avoid Ifitm1-expressing tissues. It is mapped to Chr.11 and belongs to the family of interferon-induced transmembrane proteins (Ifitm/mil/fragilis), which encodes cell surface proteins that may modulate cell adhesion and influence cell differentiation. Interferon-inducible membrane proteins of approximately 17 kDa have been suggested to play a role in the antiproliferative activity of interferons based on their pattern of induction in interferon-sensitive and -resistant cell lines and the ability of a membrane fraction enriched in 17-kDa proteins to inhibit cell growth.

REFERENCE

1. Tanaka, S. S.; Yamaguchi, Y. L.; Tsoi, B.; Lickert, H.; Tam, P. P. L. : IFITM/Mil/Fragilis family proteins IFITM1 and IFITM3 play distinct roles in mouse primordial germ cell homing and repulsion. *Dev. Cell* 9: 745-756, 2005.
2. Deblandre, G. A.; Marinx, O. P.; Evans. S. S.; Majjaj, S.; Leo, O.; Caput, D.; Huez, G. A.; Wathelet, M. G. : Expression cloning of an interferon-inducible 17-kDa membrane protein implicated in the control of cell growth. *J. Biol. Chem.* 270: 23860-23866, 1995.