

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse IFITM3/Fragilis in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human IFITM3 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse IFITM3/Fragilis Asn2-His57 Accession # Q9CQW9
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

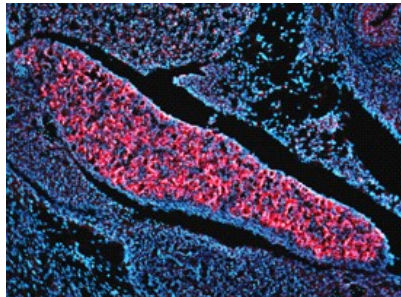
## DATA

**Western Blot**



**Detection of Mouse IFITM3/Fragilis by Western Blot.** Western blot shows lysates of NIH-3T3 mouse embryonic fibroblast cell line, D3 mouse embryonic stem cell line, and NTERA-2 human testicular embryonic carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse IFITM3/Fragilis Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3377) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for IFITM3/Fragilis at approximately 17 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

**Immunohistochemistry**



**IFITM3/Fragilis in Embryonic Mouse Ovary.** IFITM3/Fragilis was detected in immersion fixed frozen sections of embryonic mouse ovary (E13.5) using 10 µg/mL Goat Anti-Mouse IFITM3/Fragilis Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3377) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Mouse IFITM3/CD225 (also Fragilis) is a 137 amino acids (aa) 2-transmembrane protein that belongs to the Fragilis family of interferon-inducible genes. It contains two terminal extracellular domains (aa 1-57 and 131-137) and one cytoplasmic region that potentially allows for multiple phosphorylations. The N-terminal extracellular region of mouse IFITM3 shares 54%, 91%, and 58% amino acid sequence identity to the equivalent region in bovine, rat and human IFITM3, respectively. IFITM3 seems to be involved in primordial germ cell clustering and regionalization.