

DESCRIPTION

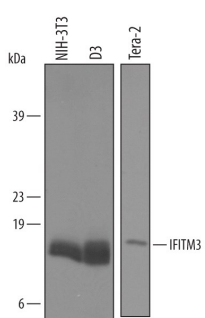
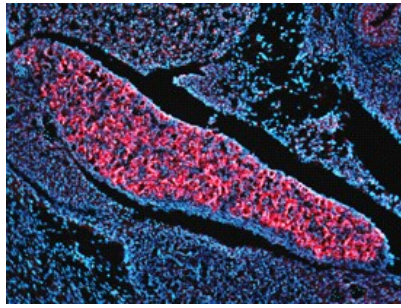
Species Reactivity	Mouse
Specificity	Detects mouse IFITM3/Fragilis in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human IFITM3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse IFITM3/Fragilis Asn2-His57 Accession # Q9CQW9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>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.</p>	<p>Immunohistochemistry</p>  <p>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.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.