



BMA BIOMEDICALS

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Monoclonal Antibody Trefoil Factor 1

To Human/Porcine breast cancer estrogen-inducible protein, PNR-2, pS2 Protein

Monoclonal antibody detects human/porcine Trefoil Factor 1 (TFF1). Trefoil Factor 1 has been described as a stabilizer of the mucous gel overlying the gastrointestinal mucosa that provides a physical barrier against various noxious agents. TFF1 may inhibit the growth of calcium oxalate crystals in urine.

Product Number:	T-1451 (Lot 01PO1218)
Clone:	C-3D5
Host species, isotype:	Mouse IgG1 kappa
Quantity:	100µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: 1µg/ml (1:200) Paraffin sections: 0.4 - 2µg/ml (1:100 – 1:500); microwave pretreatment for antigen retrieval recommended. Optimal dilutions should be determined by the end user. Suggested positive control: swine stomach. Please see www.bma.ch for protocols and general information.
Immunogen:	Peptide C57 to F84 from human Trefoil Factor 1.
Antigen, epitope:	The antigen is Trefoil Factor 1, the epitope is located in the C-terminal region.

Antigen distribution: The antigen has been described in stomach, with highest levels in the upper gastric mucosal cells. Detected in goblet cells of the small and large intestine and rectum, small submucosal glands in the esophagus, mucous acini of the sublingual gland, submucosal glands of the trachea, and epithelial cells lining the exocrine pancreatic ducts but not in the remainder of the. Scattered expression is detected in the epithelial cells of the gallbladder and submucosal glands of the vagina, and weak expression is observed in the bronchial goblet cells of the pseudostratified epithelia in the respiratory system. Detected in urine. Strongly expressed in breast cancer but at low levels in normal mammary tissue. It is regulated by estrogen in MCF-7 cells. Strong expression found in normal gastric mucosa and in the regenerative tissues surrounding ulcerous lesions of gastrointestinal tract, but lower expression found in gastric cancer (Swissprot).

Specificity: **Human / Pig:** Trefoil Factor 1.

Other: Other species not tested.

Selected references

Rio MC, Bellocq JP, Daniel JY, Tomasetto C, Lathe R, Chenard MP, Batzenschlager A, Chambon P: Breast cancer-associated pS2 protein: synthesis and secretion by normal stomach mucosa. *Science*. 1988 Aug 5; 241(4866): 705-8.

For *in vitro* research only. This product contains Kathon as a preservative.