

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit	UniProt ID: #P04155	Entrez-Gene Id: 7031
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TFF1/pS2 Antibody recognizes endogenous levels of total TFF1/pS2 protein. This antibody reacts with precursor and mature forms of TFF1/pS2. Based upon sequence alignment, this antibody is not predicted to cross-react with either TFF2 or TFF3.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val33 of human TFF1/pS2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The trefoil factor (TFF) family of proteins (TFF1/pS2, TFF2, and TFF3) are a group of highly conserved, secreted polypeptides that are expressed by mucus-secreting cells of the gastrointestinal tract. Within the gastrointestinal tract, TFFs display both common and distinct expression patterns (1). Collectively, the TFF family of proteins play a prominant role in the protection and repair of the mucous epithelia lining the gastrointestinal tract through their interactions with mucins (2). TFFs have been shown to regulate a number of cellular processes such as migration, apoptosis, and proliferation. In humans, dysregulated expression of TFFs has been observed in inflammatory bowel diseases as well as tumors of the breast, colon, lung, and stomach (2). TFF1 is expressed predominantly by the gastric epithelia, in the upper portion of the glandular pits, and is highly expressed in some adenocarcinomas such as breast cancer (1,3,4). In the context of breast cancer, TFF1 is highly expressed in estrogen receptor-positive tumors. Indeed, TFF1 expression is directly regulated by estrogen receptor- α (4). In the stomach, secreted TFF1 is a component of the protective mucous layer. TFF1 expression is strongly induced after mucosal injury (5) and is involved in stomach ontogenesis and maintenance of the integrity of the mucosa (1,3). Research studies have shown frequent loss of TFF1 expression in more than two-thirds of gastric carcinomas resulting from mutation-independent mechanisms (6-8).				
Background Re	eferences	1. Madsen, J. et al. (200 2. Taupin, D. and Podo 3. Ribieras, S. et al. (19 4. Corte, M.D. et al. (200 5. Taupin, D. et al. (200 6. Carvalho, R. et al. (2 7. Katoh, M. (2003) <i>Int</i> 8. McChesney, P.A. et a	07) J Histochem Cyt olsky, D.K. (2003) Na 198) Biochim Biophy 006) Breast Cancer 11) Lab Invest 81, 39 002) Lab Invest 82, J Mol Med 12, 3-9. al. (2006) Cancer Re	ochem 55, 505-13. ht Rev Mol Cell Biol 4, 721 <i>ys Acta</i> 1378, F61-77. <i>Res Treat</i> 96, 63-72. 97-408. 1319-26. hs 66, 1346-53.	-32.	
Species Reactiv	vitv	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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