at -	TFF1/pS2 (D2Y1J) Rabbit mAb		Cell Signaling TECHNOLOGY®	
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Applications	Depativity	Consitivity	84347	
For Research Use Only. Not for Use in Diagnostic Procedure				

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Applications: WB, IHC-P	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 13	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P04155	Entrez-Gene Id: 7031
Product Usage Information	Α	pplication			[	Dilution
intormation	V	Vestern Blotting			1	1:1000
	Ir	nmunohistochemistry	/ (Paraffin)		1	:150
Storage		••		7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
	Fo	or a carrier free (BSA	and azide free) v	ersion of this product se	e product #72033.	
Specificity / Sensitivity		TFF1/pS2 (D2Y1J) Rabbit mAb recognizes endogenous levels of total TFF1/pS2 protein. This antibody does not cross-react with either TFF2 or TFF3 proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val33 of human TFF1/pS2 protein.				
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/pS2 is a gastric peptide that is highly expressed by mucosal goblet cells of the stomach, where it is thought to play a role in maintaining the integrity of the epithelial layer of the mucosa through the regulation of cell-cell adhesion and cell migration (2,3). Research studies have shown that TFF1 functions as a tumor suppressor in the stomach as its expression is frequently lost in gastric carcinomas, largely due to promoter hypermethylation (4-8). Research studies have also demonstrated that <i>TFF1</i> is a transcriptional target of estrogen receptor- $\alpha$ and that TFF1 expression in breast carcinoma may be used as a predictive biomarker for response to anti-estrogen therapy (9,10).				
Background Refere	2. 3. 4. 5. 6. 7. 8. 9.	Taupin, D. and Podol Taupin, D. et al. (200 Carvalho, R. et al. (2 Katoh, M. (2003) <i>Int</i> McChesney, P.A. et al Mashimo, H. et al. (1 Lefebvre, O. et al. (1 May, F.E. and Westle	Isky, D.K. (2003) 1) Lab Invest 81, 002) Lab Invest 8 J Mol Med 12, 3- al. (2006) Cancer 996) Science 274 996) Science 274 ey, B.R. (2015) Er	32, 1319-26. 9. <i>Res</i> 66, 1346-53. 4, 262-5.		
Species Reactivity	Spe	ecies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	W	B: Western Blotting I	HC-P: Immunohis	stochemistry (Paraffin)		
Cross-Reactivity Ke	v	-				
Cross reactivity Re	,					

1/1/24, 10:50 AM	TFF1/pS2 (D2Y1J) Rabbit mAb (#15571) Datasheet Without Images Cell Signaling Technology H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster			
	X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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