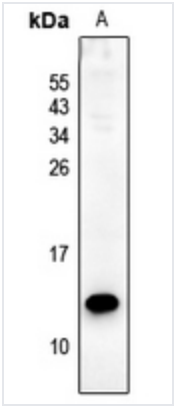
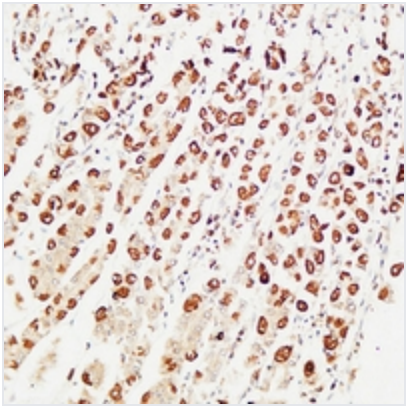
PS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PS2, Polyclonal Antibody
Full Product Name	Anti-PS2 Antibody
Product Gene Name	anti-PS2 antibody
Product Synonym Gene Name	TFF1
Product Synonym Names	BCEI; PS2; Trefoil factor 1; Breast cancer estrogen-inducible protein; PNR-2; Polypeptide P1.A; hP1.A; Protein pS2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of PS2 protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	9,150 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (43782391..43786644, complement). Location: 21q22.3
OMIM	113710
3D Structure	ModBase 3D Structure for P04155
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PS2. The exact sequence is proprietary.
Applications Tested/Suitable for anti-PS2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PS2 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-PS2 antibody	MBS8305447 is an antibody targeting PS2. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to PS2
Other Notes	Small volumes of anti-PS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PS2 antibody
Western blot analysis of PS2 expression in A375 (A) whole cell lysates.



Immunohistochemistry (IHC) of anti-PS2 antibody
Immunohistochemical analysis of PS2 staining in human stomach formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PS2. It may not necessarily be applicable to this product.

NCBI GI #	4507451
NCBI GeneID	7031
NCBI Accession #	NP_003216.1
UniProt Primary Accession #	P04155
UniProt Related Accession #	P04155
GenBank Nucleotide #	NM_003225.2
NCBI Official Full Name	trefoil factor 1
NCBI Official Synonym Full Names	trefoil factor 1
NCBI Official Symbol	TFF1
NCBI Official Synonym Symbols	pS2; BCEI; HPS2; HP1.A; pNR-2; D21S21
UniProt Protein Name	Trefoil factor 1
UniProt Synonym Protein Names	Breast cancer estrogen-inducible protein; PNR-2; Polypeptide P1.A; hP1.A; Protein pS2
Protein Family	Inorganic pyrophosphatase
UniProt Gene Name	TFF1
UniProt Synonym Gene Names	BCEI; PS2; hP1.A
UniProt Entry Name	TFF1_HUMAN
NCBI Protein Information	trefoil factor 1; protein pS2; polypeptide P1.A; gastrointestinal trefoil protein pS2; breast cancer estrogen-inducible protein; breast cancer estrogen-inducible sequence
NCBI Summary for PS2	Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. They are stable secretory proteins expressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the mucosa from insults, stabilize the mucus layer, and affect healing of the epithelium. This gene, which is expressed in the gastric mucosa, has also been studied because of its expression in human tumors. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21. [provided by RefSeq, Jul 2008]

UniProt Comments for PS2	TFF1: Stabilizer of the mucous gel overlying the gastrointestinal mucosa that provides a physical barrier against various noxious agents. May inhibit the growth of calcium oxalate crystals in urine. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: extracellular space Molecular Function: protein binding; growth factor activity Biological Process: negative regulation of cell proliferation; response to peptide hormone stimulus; maintenance of gastrointestinal epithelium; digestion; carbohydrate metabolic process; cell differentiation; response to iron ion; response to estradiol stimulus
Research Articles on PS2	**1.** TFF1 expression is silenced by DNA methylation and is associated with tumor invasion and a poor survival in gastric cancer patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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