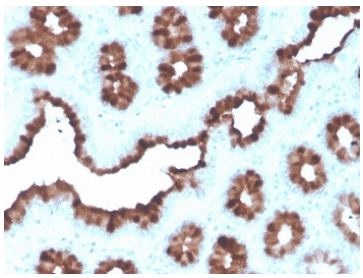
pS2 Antibody Recombinant Mouse MAb rTFF1/1091 / TFF1 Antibody [clone rTFF1/1091] (V8111)

Catalog No.	Formulation	Size
V8111-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8111-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8111SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

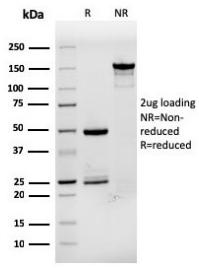
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rTFF1/1091
Purity	Protein G affinity chromatography
UniProt	P04155
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml (not suitable for frozen tissues)
Limitations	This recombinant pS2 antibody is available for research use only.



pS2 Antibody Recombinant Mouse MAb rTFF1/1091. Immunohistochemistry analysis of Trefoil factor 1 (TFF1) in formalin-fixed, paraffin-embedded human breast carcinoma tissue using pS2 Antibody Recombinant Mouse MAb rTFF1/1091. Tumor epithelial cells show HRP-DAB brown cytoplasmic staining consistent with expression of the estrogen regulated secretory protein TFF1 (pS2). Hematoxylin counterstain highlights nuclei (blue). Antigen retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling prior to immunohistochemistry staining.



SDS-PAGE analysis of purified, BSA-free pS2 Antibody Recombinant Mouse MAb rTFF1/1091 as confirmation of integrity and purity.

Description

Trefoil factor 1 (TFF1) is a small secreted epithelial peptide encoded by the TFF1 gene and belongs to the trefoil factor family of mucin-associated proteins that help maintain epithelial integrity in the gastrointestinal tract. The protein is most strongly expressed in mucus-secreting epithelial cells of the stomach, particularly within gastric foveolar epithelium where it contributes to stabilization of the mucin layer protecting the gastric mucosa. pS2 Antibody Recombinant Mouse MAb rTFF1/1091 recognizes Trefoil factor 1 protein and supports detection of TFF1 expression in epithelial tissues and experimental cell models used to study mucosal biology and epithelial differentiation. TFF1 antibody, also referred to as Trefoil factor 1 antibody or pS2 antibody in the literature, targets a protein widely used as a marker of gastric epithelial lineage and hormone-responsive epithelial tumors.

The protein was originally identified in breast carcinoma cells as an estrogen inducible secretory peptide known as pS2. Expression of TFF1 is strongly associated with estrogen receptor signaling pathways and is frequently detected in hormone-responsive breast cancer cells. Because of this relationship, pS2 antibody detection has been widely used in studies examining estrogen-regulated gene expression and breast tumor biology. Expression of TFF1 in breast cancer cell lines such as MCF7 reflects the regulatory influence of estrogen signaling on secretory protein production in epithelial tumor cells.

In addition to its role in breast cancer biology, TFF1 plays an important physiological role in maintaining gastrointestinal epithelial integrity. The protein is secreted into the gastric mucus layer where it interacts with mucins and other extracellular components to support stability of the mucosal barrier. Trefoil factor peptides contain a characteristic trefoil domain stabilized by disulfide bonds that allows them to remain structurally stable in the protease-rich environment of the gastrointestinal lumen. These properties enable TFF1 to participate in epithelial restitution processes that promote rapid repair of damaged mucosal surfaces.

TFF1 expression patterns are frequently used to investigate epithelial differentiation and mucosal barrier biology. Strong expression is typically observed in gastric epithelial cells while expression in other tissues is more limited. Alterations in TFF1 expression have also been investigated in studies of gastric tumorigenesis and epithelial transformation, highlighting the role of this trefoil family peptide in maintaining normal epithelial homeostasis.

pS2 Antibody Recombinant Mouse MAb rTFF1/1091 supports research examining Trefoil factor 1 expression in epithelial tissues and tumor cell models. Detection of TFF1 protein allows investigators to study gastric epithelial biology, mucosal barrier regulation, and estrogen-regulated signaling pathways associated with epithelial tumor biology.

Application Notes

Optimal dilution of the pS2 Antibody Recombinant Mouse MAb rTFF1/1091 should be determined by the researcher.

Immunogen

A recombinant full-length human protein was used as the immunogen for this recombinant pS2 antibody. Its epitope is located in the c-terminal region of human pS2 protein.

Storage

Store the recombinant pS2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Trefoil factor 1, TFF1, Breast cancer associated protein pS2, Trefoil factor family peptide 1, Trefoil factor peptide 1

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