

Datasheet for ABIN3044264
anti-TFF1 antibody (Middle Region)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	TFF1
Binding Specificity:	AA 59-72, Middle Region
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TFF1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Estrogen Inducible Protein pS2/TFF1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse Estrogen Inducible Protein pS2, identical to the related rat sequence.
Sequence:	CCFDDSVRGF PWCF
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Estrogen Inducible Protein pS2/TFF1 Antibody (ABIN3044264). Tested in IHC, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: TFF1

Alternative Name: TFF1 ([TFF1 Products](#))

Background: Synonyms: Trefoil factor 1, Protein pS2, Tff1, Bcei, Ps2,
Tissue Specificity: Strong expression found in normal gastric mucosa. Not detected in the small or large intestine nor in normal mammary gland.
Background: TFF1 (Trefoil factor 1), also known as pS2, is a protein that in humans is encoded by the TFF1 gene. 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. It is found that TFF1 in normal human urine inhibited the growth of calcium oxalate crystals. Urinary TFF1 showed an inhibitory potency similar to that of nephrocalcin, and inhibition was dose dependent and inhibited by TFF1 antisera, particularly by antisera directed to the TFF1 C terminus. Concentrations and relative amounts of TFF1 in the urine of patients with idiopathic calcium oxalate kidney stones were significantly less than those found in controls. 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.

Molecular Weight: 12 kDa

UniProt: [Q08423](#)

Pathways: [EGFR Signaling Pathway](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Rat
1. Chutipongtanate, S., Nakagawa, Y., Sritippayawan, S., Pittayamateekul, J., Parichatikanond, P., Westley, B. R., May, F. E. B., Malasit, P., Thongboonkerd, V. Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor. J. Clin. Invest. 115: 3613-3622, 2005. 2. Hanby, A. M., Poulsom, R., Singh, S., Elia, G., Jeffery, R. E., Wright, N. A. Spasmolytic polypeptide is a major antral peptide: distribution of the trefoil peptides human spasmolytic

Application Details

polypeptide and pS2 in the stomach. *Gastroenterology* 105: 1110-1116, 1993. 3. Roberts, M., Wallace, J., Jeltsch, J.-M., Berry, M. The 5-prime flanking region of the human pS2 gene mediates its transcriptional activation by estrogen in MCF-7 cells. *Biochem. Biophys. Res. Commun.* 151: 306-313, 1988.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

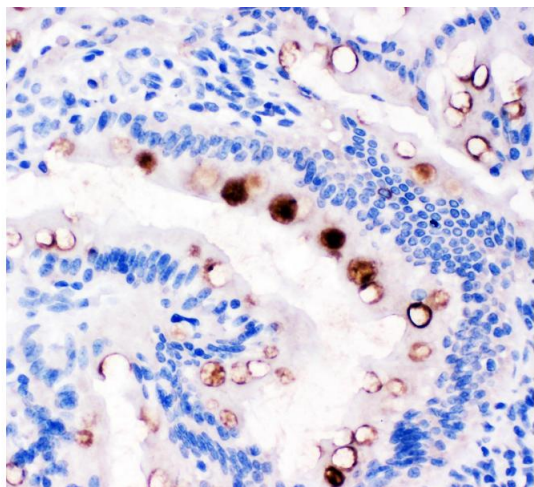
Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



Western Blotting

Image 1. Anti-Estrogen Inducible Protein pS2 antibody, Western blottingWB: Rat Stomach Tissue Lysate



Immunohistochemistry

Image 2. Anti-Estrogen Inducible Protein pS2 antibody, IHC(P) IHC(P): Rat Intestine Tissue