

Basic Information

Product Name	Anti-Trefoil Factor 1/TFF1 Antibody	
Gene Name	TFF1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Estrogen Inducible Protein pS2.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	12 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	1:500-2000 1:50-400

Storage

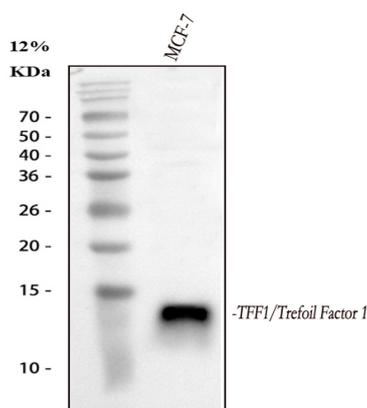
12 months from date of receipt, -20°C as supplied.

Background Information

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

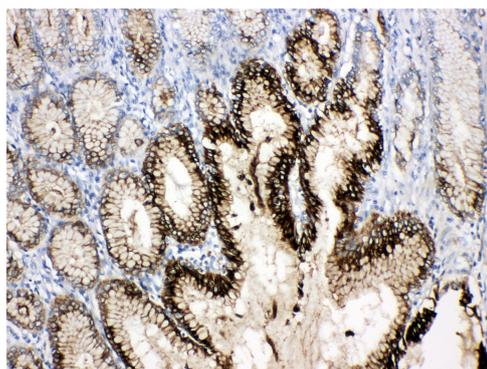
urine of patients with idiopathic calcium oxalate kidney stones were significantly less than those found in controls. This gene, which is expressed in the gastric mucosa, has also been studied because of its expression in human tumors. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21.

Selected Validation Data



Western blot analysis of Trefoil Factor 1/TFF1 using anti-Trefoil Factor 1/TFF1 antibody (BA4597-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Trefoil Factor 1/TFF1 antigen affinity purified polyclonal antibody (BA4597-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Trefoil Factor 1/TFF1 at approximately 12 kDa. The expected band size for Trefoil Factor 1/TFF1 is at 9 kDa.



IHC analysis of Trefoil Factor 1/TFF1 using anti-Trefoil Factor 1/TFF1 antibody (BA4597-1).

Trefoil Factor 1/TFF1 was detected in a paraffin-embedded section of human gastric cancer tissue. The tissue section was incubated with rabbit anti-Trefoil Factor 1/TFF1 Antibody (BA4597-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.