TFF1 Antibody (R31880)

Catalog No.	Formulation	Size
R31880	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P04155
Localization	Cytoplasmic, secreted
Applications	Western Blot : 0.1-0.5ug/ml ELISA : 0.1-0.5ug/ml (human protein tested); request BSA-free format for coating
Limitations	This TFF1 antibody is available for research use only.



Western blot testing of HeLa cell lysate with TFF1 antibody. Expected/observed molecular weight ~12 kDa.

Description

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.

Application Notes

Optimal dilution of the TFF1 antibody should be determined by the researcher.

Immunogen

Amino acids 25-84 of human TFF1 were used as the immunogen for the TFF1 antibody.

Storage

After reconstitution, the TFF1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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