

Anti-TFF3 Picoband Antibody

Catalog # ABO12958

Product Information

Application	WB, IHC-P, E
Primary Accession	Q62395
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for TFF3 detection. Tested with WB, IHC-P, Direct ELISA in Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	21786
Other Names	Trefoil factor 3, Intestinal trefoil factor, mITF, Tff3, Itf
Calculated MW	8808
Application Details	Western blot, 0.1-0.5 μ g/ml Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml Direct ELISA, 0.1-0.5 μ g/ml
Subcellular Localization	Secreted, extracellular space, extracellular matrix.
Tissue Specificity	Expressed in goblet cells of the intestines and colon (at protein level). Expressed abundantly in goblet cells of intestine and colon, and at low levels in stomach. No expression in brain, lung, spleen, kidney, uterus, pancreas, liver, heart or thymus.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived mouse TFF3 recombinant protein (Position: A23-F81).
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C; for one year. After r ° Constitution, at 4 °C; for one month. It ° Can also be aliquotted and stored frozen at -20 °C; for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	Tff3
Synonyms	Itf
Function	Involved in the maintenance and repair of the intestinal mucosa. Promotes the mobility of epithelial cells in healing processes (motogen).
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000250 UniProtKB:Q07654}. Cytoplasm {ECO:0000250 UniProtKB:Q07654}
Tissue Location	Expressed in goblet cells of the intestines and colon (at protein level). Expressed abundantly in goblet cells of intestine and colon, and at low levels in stomach. No expression in brain, lung, spleen, kidney, uterus, pancreas, liver, heart or thymus

Background

Trefoil factor 3 is a protein that in humans is encoded by the TFF3 gene. It is mapped to 21q22.3. Members of the trefoil family can interact with mucins and have an influence on mucus viscosity. They also promote migration of epithelial cells, are linked to antiapoptosis, induce cell scattering, trigger chemotaxis, and participate in immune responses. This gene is a marker of columnar epithelium and is expressed in a variety of tissues including goblet cells of the intestines and colon. It has been found that TFF3 is the most highly upregulated gene in 19 poorly differentiated endometrioid endometrial carcinomas (G3-EECs) compared with normal endometrium biopsies.

Images

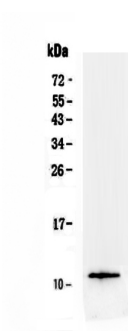
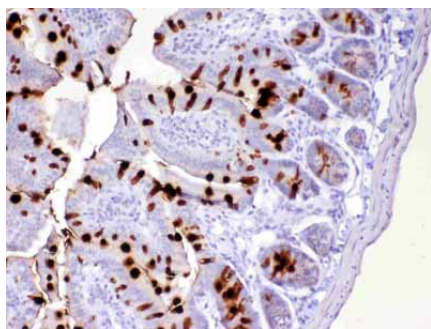


Figure 1. Western blot analysis of TFF3 using anti-TFF3 antibody (ABO12958). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse small intestine tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TFF3 antigen affinity purified polyclonal antibody (Catalog # ABO12958) at 0.5 μ g/mL overnight at 4 $^{\circ}$ C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TFF3 at approximately 12KD. The expected band size for TFF3 is at 9KD.

Figure 2. IHC analysis of TFF3 using anti-TFF3 antibody (ABO12958). TFF3 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6,



epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-TFF3 Antibody (ABO12958) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.