

For Research Use Only

# TFF2 Recombinant antibody

Catalog Number: 83717-4-RR



## Basic Information

<b>Catalog Number:</b> 83717-4-RR	<b>GenBank Accession Number:</b> BC032820	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7032	<b>CloneNo.:</b> 240661G12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q03403	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> trefoil factor 2	
<b>Immunogen Catalog Number:</b> AG4537	<b>Calculated MW:</b> 129 aa, 14 kDa	
	<b>Observed MW:</b> 18-20 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), IP, ELISA	<b>Positive Controls:</b> WB : human urine sample, IP : mouse stomach tissue,
<b>Species Specificity:</b> human	

## Background Information

The trefoil factor family (TFF), comprises of three polypeptides, TFF1, TFF2 and TFF3 (7-12 kDa), secreted to mucosal surfaces by mucus producing cells, prominently in the gastrointestinal tract. TFF2, also known as spasmolytic polypeptide, is a low-molecular weight protein, expressed in mucous neck cells of the fundus and glands at the base of the antrum in normal human stomach. TFF2 could Inhibit gastrointestinal motility and gastric acid secretion. However, recent studies suggest that TFF2 could also play an important role in the immune system. We got a 18-20 kDa band in western blotting maybe due to glycosylation, and mature TFF2 is a 12 kDa protein (PMID: 10716671).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

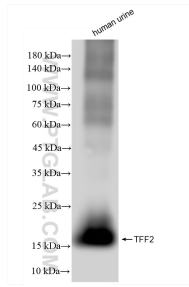
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

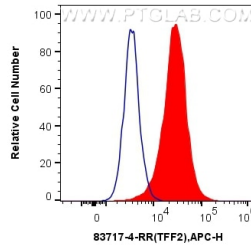
E: proteintech@ptglab.com  
W: ptglab.com

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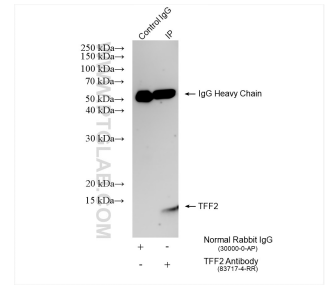
## Selected Validation Data



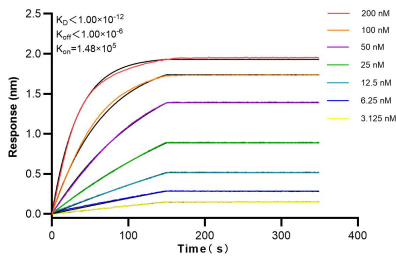
Human urine sample was subjected to SDS PAGE followed by western blot with 83717-4-RR (TFF2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  PC-3 cells were intracellularly stained with 0.25  $\mu$ g TFF2 Recombinant antibody (83717-4-RR, Clone:240661G12) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-TFF2 (IP:83717-4-RR, 4 $\mu$ g; Detection:83717-4-RR 1:1000) with mouse stomach tissue lysate 1360  $\mu$ g.



Bi-layer interferometry (BLI) kinetic assays of 83717-4-RR against Human TFF2 were performed. The affinity constant is below 1 pM.