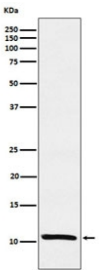
TFF1 Antibody for WB / Trefoil Factor 1 Western Blot Antibody [clone ADIB-20] (RQ5039)

Catalog No.	Formulation	Size
RQ5039	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ADIB-20
Purity	Affinity purified
UniProt	P04155
Applications	Western Blot : 1:500-1:2000
Limitations	This TFF1 antibody is available for research use only.



TFF1 Antibody for WB. Western blot analysis of human MCF7 cell lysate using TFF1 Antibody for WB. Lane 1: human MCF7 cell lysate. A band is detected at approximately 12 kDa, consistent with the predicted molecular weight of Trefoil factor 1 (TFF1). The observed band reflects expression of the small secreted trefoil peptide originally identified as the estrogen inducible protein pS2 in breast cancer cells, aligning with the known estrogen-responsive expression of TFF1 in MCF7 breast carcinoma cells.

Description

Trefoil factor 1 (TFF1) is a small secreted epithelial peptide encoded by the TFF1 gene and a member of the trefoil factor family involved in mucosal protection and epithelial repair within the gastrointestinal tract. The protein is strongly expressed in mucus-secreting epithelial cells of the stomach, particularly within gastric foveolar epithelium where it contributes to stabilization of the mucin layer protecting the gastric mucosa. TFF1 Antibody for WB / Trefoil Factor 1 Western Blot Antibody (clone ADIB-20) is a recombinant rabbit monoclonal antibody developed for western blot analysis

of Trefoil factor 1 protein in cell lysates and tissue extracts. TFF1 antibody, also referred to as Trefoil factor 1 antibody or pS2 antibody in the literature, targets a protein widely studied as a marker of epithelial differentiation and gastric mucosal biology.

Western blot analysis is commonly used to detect TFF1 protein expression in epithelial tissues and cultured cell models. Because TFF1 is a relatively small secreted peptide, western blot experiments typically reveal a band corresponding to the predicted molecular weight of the mature Trefoil factor 1 protein. This band is frequently observed in lysates derived from gastric mucosa, gastrointestinal epithelial cells, and breast cancer cell lines known to express TFF1. Western blot detection therefore provides a direct method for confirming TFF1 protein expression and evaluating differences in expression levels across experimental samples.

The protein was originally identified in breast carcinoma cells as the estrogen inducible secretory peptide pS2. Expression of TFF1 is strongly associated with estrogen receptor signaling pathways in hormone-responsive breast cancer models. Western blot experiments in breast cancer cell lines such as MCF7 commonly detect TFF1 protein as part of studies examining estrogen-regulated gene expression and epithelial tumor biology. Detection of TFF1 bands in these cell models helps confirm hormone-responsive protein expression and supports investigations of estrogen signaling pathways.

Western blot studies can also be used to analyze secretion dynamics of TFF1 because the protein is processed through the classical secretory pathway before being released from epithelial cells. As a result, TFF1 may be detected in both intracellular lysates and extracellular conditioned media samples depending on the experimental design. Western blot detection of Trefoil factor 1 is therefore frequently used to investigate epithelial secretory activity, mucosal barrier regulation, and expression of trefoil family peptides in gastrointestinal tissues.

TFF1 Antibody for WB / Trefoil Factor 1 Western Blot Antibody (clone ADIB-20) supports western blot analysis of Trefoil factor 1 protein in gastric epithelial tissues, breast cancer cell lines, and other epithelial models. Detection of the characteristic low molecular weight TFF1 band allows researchers to evaluate protein expression and compare TFF1 levels across experimental conditions using western blot techniques.

Application Notes

Optimal dilution of the TFF1 Antibody for WB should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Estrogen Inducible Protein pS2 / TFF1 was used as the immunogen for the TFF1 Antibody for WB.

Storage

Store the TFF1 antibody at -20oC.

Alternate Names

Trefoil factor 1, pS2, Breast cancer associated protein pS2, Trefoil factor family peptide 1