abcam

ab202967

Anti-Trefoil Factor 3 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human TFF3 aa 50 to C-terminus conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q07654
Purification technique	Affinity purification Protein A

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/500
Notes	(or 1/50 - 1/200 using a fluorescent secondary antibody)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.

Notes	-

Predicted

Species	Rat, Cow
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat, Cow
Dilution info	-
Notes	-

Target data

See full target information TFF3

Function	Involved in the maintenance and repair of the intestinal mucosa. Promotes the mobility of epithelial cells in healing processes (motogen).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Trefoil Factor 3 (TFF3) also known as intestinal trefoil factor is a small peptide with a molecular mass around 7 kDa. This protein is characterized by the presence of a trefoil domain which consists of a stable compact structure important for its function. TFF3 has significant expression in the gastrointestinal tract notably in the colon and small intestine where it acts to maintain the integrity of the mucosal barrier. It can also be found in other tissues but its concentrations vary depending on factors like tissue type and health status.
Biological function summary	TFF3 plays an important role in protecting and repairing epithelial tissues particularly those lining the gastrointestinal tract. This protein promotes epithelial restitution by aiding cell migration and inhibits apoptosis contributing to tissue healing processes. While TFF3 does not form part of a large protein complex it often interacts with mucins specifically mucin 2 to bolster the protective mucus layer which is essential for shielding epithelial cells.
Pathways	Trefoil Factor 3 is notably involved in pathways associated with mucosal immune response and inflammation. A significant pathway involving TFF3 is the mucosal defense pathway where it works alongside other mucins and proteins like epidermal growth factor (EGF) to mediate regeneration and defense of epithelial tissues after injury. It also engages in the Wnt signaling pathway where it affects cell proliferation and migration critical for maintaining epithelial homeostasis.
Associated diseases and disorders	TFF3 has links to inflammatory bowel disease (IBD) and colorectal cancer. In IBD its expression levels may be altered affecting the ability of the intestine to protect itself and heal contributing to the disease's progression. In colorectal cancer TFF3 can exhibit upregulated expression linking it to tumor growth and metastasis. Proteins such as beta-catenin in the Wnt signaling pathway which are associated with cell cycle regulation have connections with TFF3 highlighting its role in cancerous transformations.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

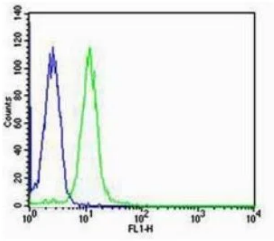
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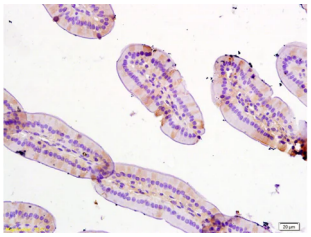
2 product images



Flow Cytometry (Intracellular) - Anti-Trefoil Factor 3 antibody (ab202967)

Trefoil Factor 3 Flow Cytometry (Intracellular) staining using rabbit Anti-Trefoil Factor 3 antibody

Intracellular flow cytometric analysis of HT-29 cells labeling Trefoil Factor 3with ab202967 at 1/100 dilution for 60 minutes at room temperature (green histogram) compared to a negative control cell (blue histogram). Detection utilisedGoat Anti-Rabbit IgG (H + L) Alexa Fluor 488 Conjugated Secondary Antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody (ab202967)

Trefoil Factor 3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Trefoil Factor 3 antibody

Immunohistochemical analysis of paraffin embedded mouse small intestine tissue labeling TFF3 with ab202967 1:200, followed by secondary antibody and DAB staining.

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