

# Anti-Trefoil Factor 3 antibody [EPR3974] ab108599

敲除验证
重组
RabMAb

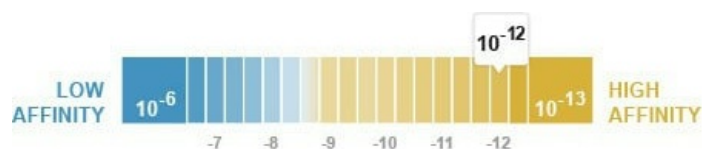
★★★★☆
1 Abreviews
21 References
17 图像

### 概述

<b>产品名称</b>	Anti-Trefoil Factor 3抗体[EPR3974]
<b>描述</b>	兔单克隆抗体[EPR3974] to Trefoil Factor 3
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IP, IHC-P
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>阳性对照</b>	WB: Human small intestine, colon and uterus tissue lysates. IHC-P: Human colon and colonic adenocarcinoma, breast carcinoma, endometrial carcinoma and papillary carcinoma of thyroid gland tissues. IP: Human small intestine tissue lysate.
<b>常规说明</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>解离常数 (K<sub>D</sub>)</b>	K <sub>D</sub> = 9.60 x 10 <sup>-12</sup> M



[Learn more about Kp](#)

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3974
同种型	IgG

应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用 ab108599 于以下的经测试应用

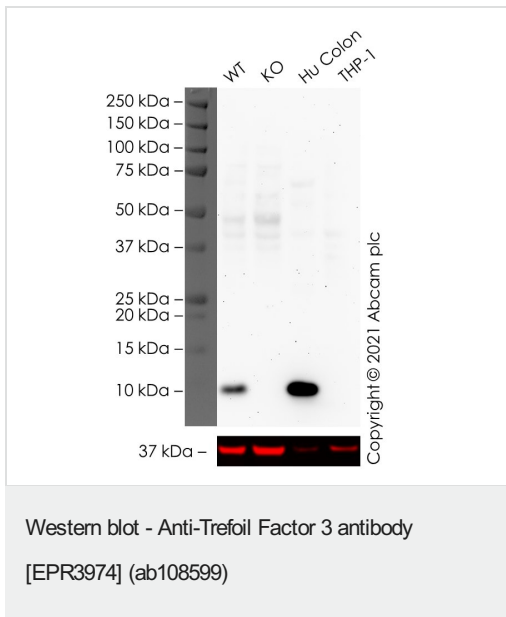
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000. Detects a band of approximately 9 kDa (predicted molecular weight: 9 kDa). <b>For unpurified use at 1/1000 - 1/10000.</b>
IP		1/30. <b>For unpurified use at 1/10 - 1/100.</b>
IHC-P		1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols.</u></b> <b>For unpurified use at 1/100 - 1/250.</b>

靶标

功能	Involved in the maintenance and repair of the intestinal mucosa. Promotes the mobility of epithelial cells in healing processes (motogen).
组织特异性	Expressed in goblet cells of the intestines and colon (at protein level). Expressed by goblet cells of small and large intestinal epithelia and also by the uterus.
序列相似性	Contains 1 P-type (trefoil) domain.
细胞定位	Secreted > extracellular space > extracellular matrix > apical lamina.

图片



**All lanes :** Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599) at 1/1000 dilution

**Lane 1 :** Wild-type MCF7 cell lysate

**Lane 2 :** TFF3 knockout MCF7 cell lysate

**Lane 3 :** Human colon cell lysate

**Lane 4 :** THP-1 cell lysate

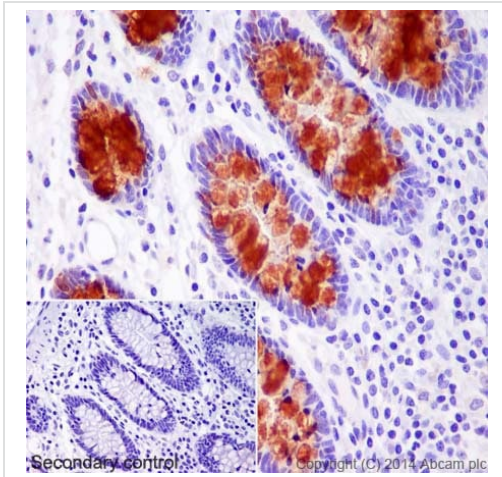
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 9 kDa

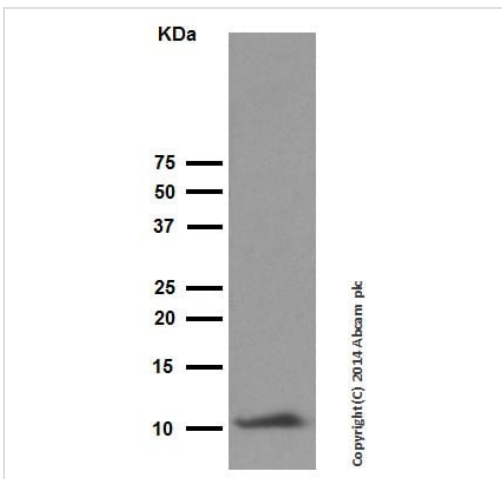
**Observed band size:** 10 kDa

False colour image of Western blot: Anti-Trefoil Factor 3 antibody [EPR3974] staining at 1/1000 dilution, shown in black; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab108599 was shown to bind specifically to Trefoil Factor 3. A band was observed at 10 kDa in wild-type MCF7 cell lysates with no signal observed at this size in TFF3 knockout cell line [ab274936](#) (knockout cell lysate [ab274994](#)). To generate this image, wild-type and TFF3 knockout MCF7 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development with Optiblot (ECL reagent [ab133456](#)) and imaged with 20 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling Trefoil Factor 3 with purified ab108599 at 1/2000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599) at 1/1000 dilution (purified) + Human colon tissue lysate at 20 µg

**Secondary**

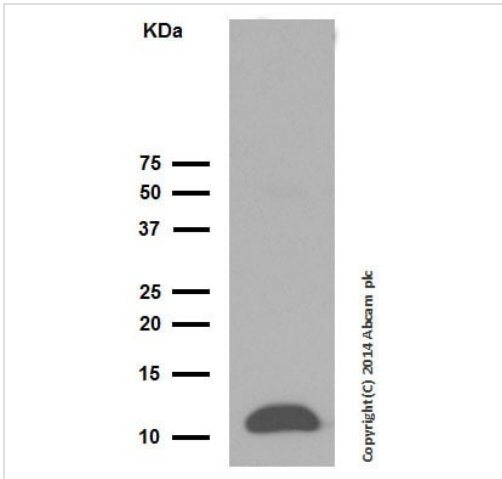
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 9 kDa

**Observed band size:** 9 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599) at 1/5000 dilution (purified) + Human small intestine tissue lysate at 20 µg

**Secondary**

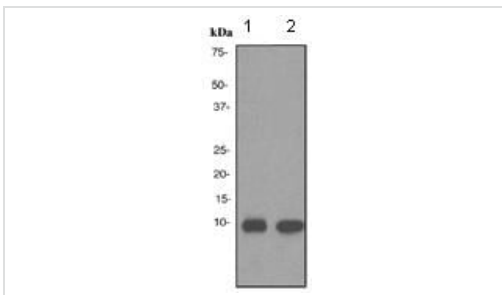
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 9 kDa

**Observed band size:** 9 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

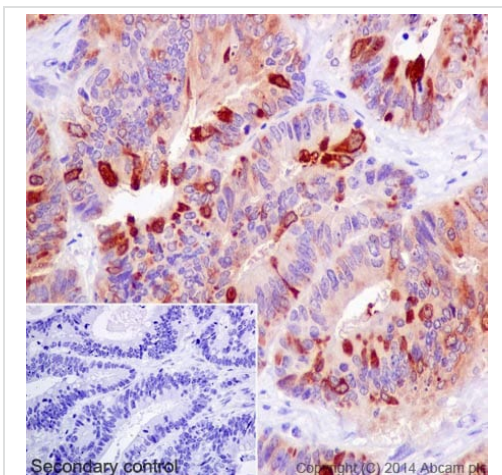
**All lanes :** Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599) at 1/1000 dilution (unpurified)

**Lane 1 :** Human small intestine tissue lysate

**Lane 2 :** Human uterus tissue lysate

Lysates/proteins at 10 µg per lane.

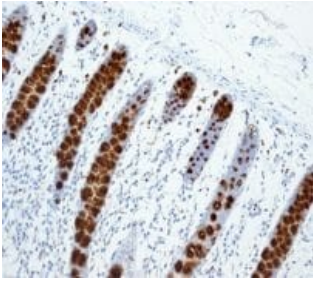
**Predicted band size:** 9 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colonic carcinoma tissue labelling Trefoil Factor 3 with purified ab108599 at 1/2000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.

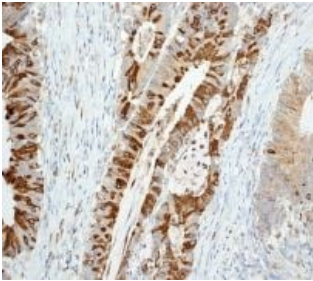
**ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling Trefoil Factor 3 with unpurified ab108599 at a dilution of 1/100.

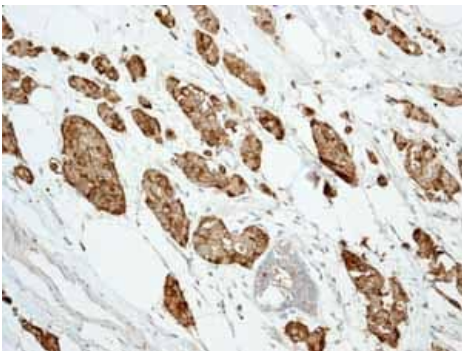
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colonic adenocarcinoma tissue labelling Trefoil Factor 3 with unpurified ab108599 at a dilution of 1/100.

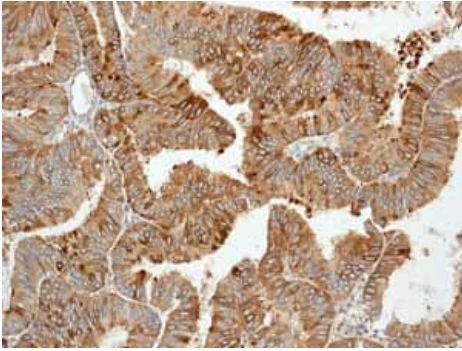
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling Trefoil Factor 3 with unpurified ab108599.

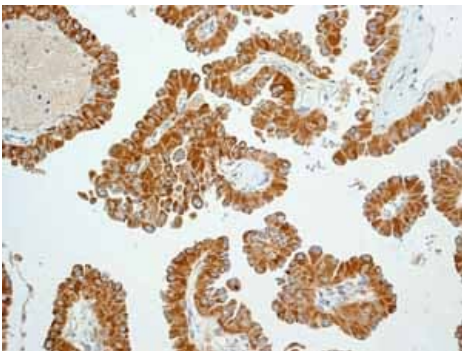
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrial carcinoma tissue labelling Trefoil Factor 3 with unpurified ab108599.

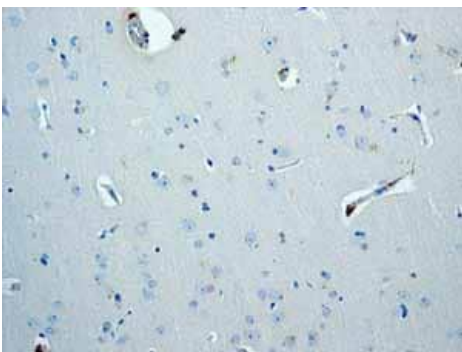
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human papillary carcinoma of thyroid gland tissue labelling Trefoil Factor 3 with unpurified ab108599.

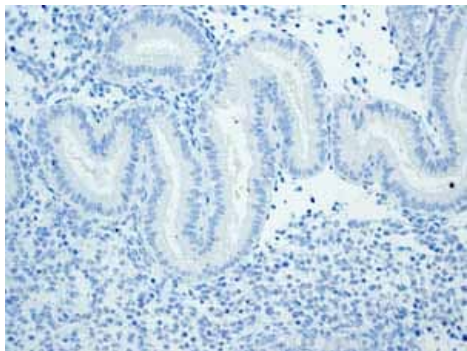
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human brain tissue labelling Trefoil Factor 3 with unpurified ab108599. Negative staining is shown.

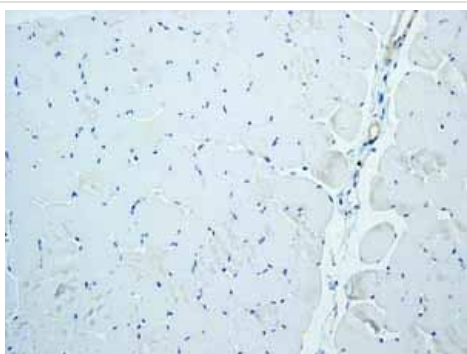
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human uterus tissue labelling Trefoil Factor 3 with unpurified ab108599. Negative staining is shown.

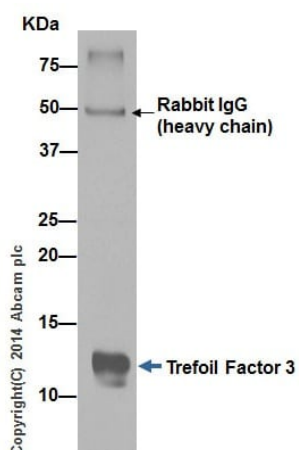
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle tissue labelling Trefoil Factor 3 with unpurified ab108599. Negative staining is shown.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



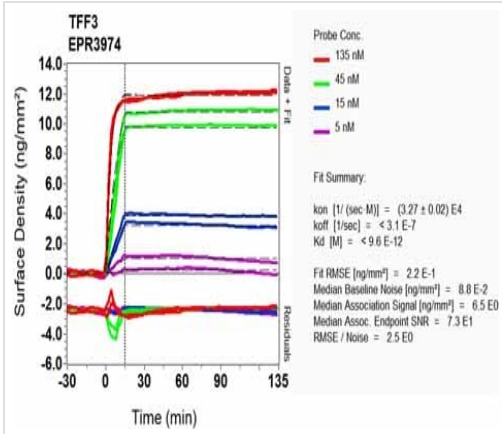
Immunoprecipitation - Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

ab108599 (purified) at 1/30 immunoprecipitating Trefoil Factor 3 in human small intestine tissue lysate. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.





OI-RD Scanning - Anti-Trefoil Factor 3 antibody  
[EPR3974] (ab108599)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-Trefoil Factor 3 antibody [EPR3974] (ab108599)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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