

Anti-Tissue Factor antibody [EPR20369] ab211016

KO VALIDATED

Recombinant

RabMAb

8 Images

Overview

Product name	Anti-Tissue Factor antibody [EPR20369]
Description	Rabbit monoclonal [EPR20369] to Tissue Factor
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human Tissue Factor His-tagged recombinant protein (aa34-251); MDA-MB-231 and U-87 MG whole cell lysates; Human fetal kidney and lung cancer lysates. IHC-P: Human placenta, kidney and pancreas cancer tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20369

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab211016 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 42 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function

Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited proteolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.

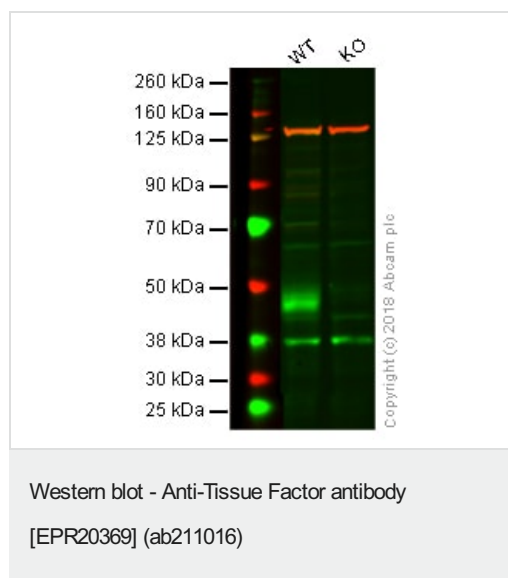
Sequence similarities

Belongs to the tissue factor family.

Cellular localization

Membrane.

Images



All lanes : Anti-Tissue Factor antibody [EPR20369] (ab211016) at 1/1000 dilution (Anti-Tissue Factor antibody NPD)

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : Tissue Factor knockout HAP1 whole cell lysate

Lysates/proteins at 40 µg per lane.

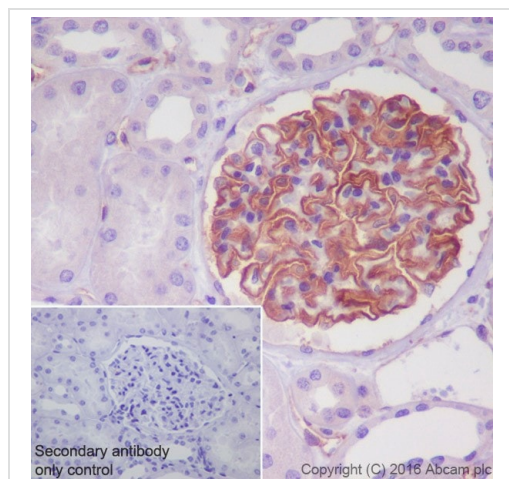
Predicted band size: 33 kDa

Observed band size: 39 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab211016 observed at 49 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab211016 was shown to recognize Tissue Factor in wild-type HAP1 cells as signal was lost at the expected MW in Tissue Factor

knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and F3 (Tissue Factor) knockout samples were subjected to SDS-PAGE. Ab211016 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



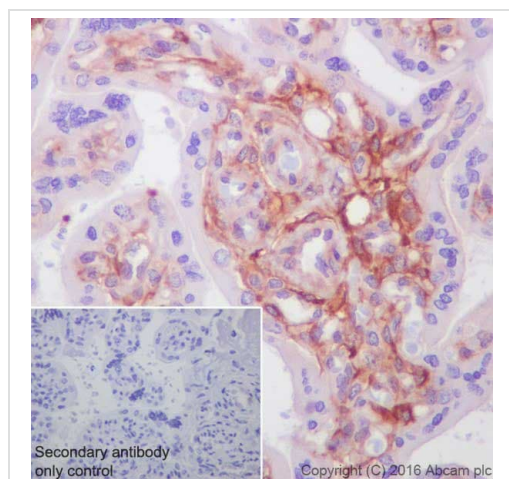
Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling Tissue Factor with ab211016 at 1/50 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Cytoplasmic staining on human kidney glomerulus is observed [PMID: 2237820].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



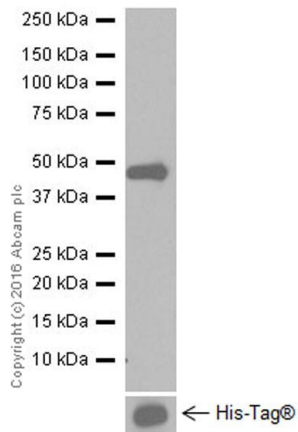
Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling Tissue Factor with ab211016 at 1/50 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Cytoplasmic staining on human placenta is observed [PMID: 2237820].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Tissue Factor antibody
[EPR20369] (ab211016)

Anti-Tissue Factor antibody [EPR20369] (ab211016) at 1/1000 dilution + Human Tissue Factor His-tagged recombinant protein (aa34-251) at 0.01 µg

Secondary

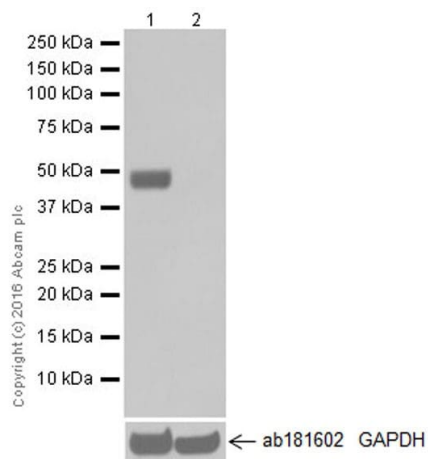
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 33 kDa

Observed band size: 42 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Tissue Factor antibody
[EPR20369] (ab211016)

All lanes : Anti-Tissue Factor antibody [EPR20369] (ab211016) at 1/5000 dilution

Lane 1 : MDA-MB-231 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

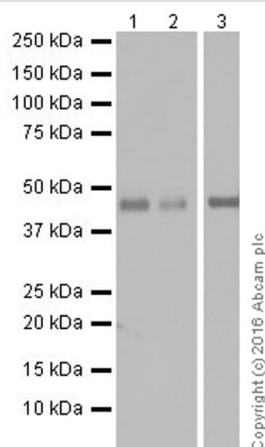
Predicted band size: 33 kDa

Observed band size: 42 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

MCF7 is a negative control (PMID: 24137414).



Western blot - Anti-Tissue Factor antibody
[EPR20369] (ab211016)

Lanes 1-2 : Anti-Tissue Factor antibody [EPR20369] (ab211016)
at 1/1000 dilution

Lane 3 : Anti-Tissue Factor antibody [EPR20369] (ab211016) at
1/10000 dilution

Lane 1 : Human fetal kidney lysate

Lane 2 : Human lung cancer lysate

Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell
line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at
1/100000 dilution

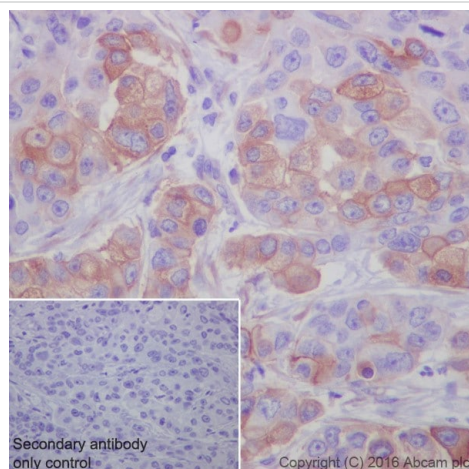
Predicted band size: 33 kDa

Observed band size: 42 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The observed molecular weight is consistent with the literature
(PMID: 7992837).



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Tissue Factor antibody
[EPR20369] (ab211016)

Immunohistochemical analysis of paraffin-embedded human
pancreas cancer tissue labeling Tissue Factor with ab211016 at
1/50 dilution, followed by Rabbit specific IHC polymer detection kit
HRP/DAB ([ab209101](#)) Ready to use.

Membranous and cytoplasmic staining on tumor cells of human
pancreas cancer is observed [PMID: 7648165].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary
antibody, secondary antibody is Rabbit specific IHC polymer
detection kit HRP/DAB ([ab209101](#)) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH
9.0 before commencing with IHC staining protocol.

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-Tissue Factor antibody [EPR20369] (ab211016)

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

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