

Product datasheet

Anti-TWEAKR/FN14 antibody [EPR3179] α b109365

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [23 References](#) [8 Images](#)

Overview

Product name	Anti-TWEAKR/FN14 antibody [EPR3179]
Description	Rabbit monoclonal [EPR3179] to TWEAKR/FN14
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	Suitable for: WB, IP, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HT-29, NIH/3T3, L6, C2C12, HUVEC and HT-1080 cell lysates; Human uterus tissue, human bladder carcinoma and human cardiac muscle.
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. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR3179
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109365 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

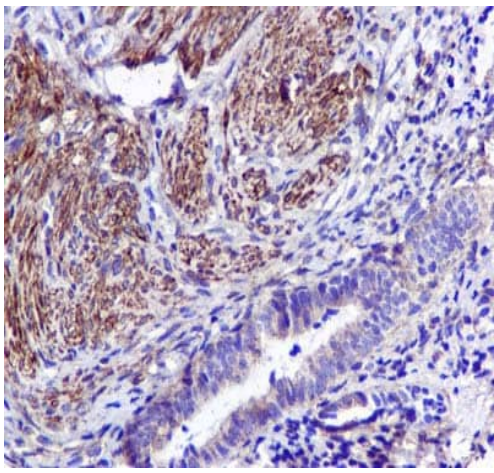
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 14 kDa.
IP		1/40. For unpurified use at 1/10.
IHC-P	★★★★★ (3)	1/50 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

Application notes Is unsuitable for ICC/IF.

Target

Function	Receptor for TNFSF12/TWEAK. Weak inducer of apoptosis in some cell types. Promotes angiogenesis and the proliferation of endothelial cells. May modulate cellular adhesion to matrix proteins.
Tissue specificity	Highly expressed in heart, placenta and kidney. Intermediate expression in lung, skeletal muscle and pancreas.
Sequence similarities	Contains 1 TNFR-Cys repeat.
Cellular localization	Membrane.

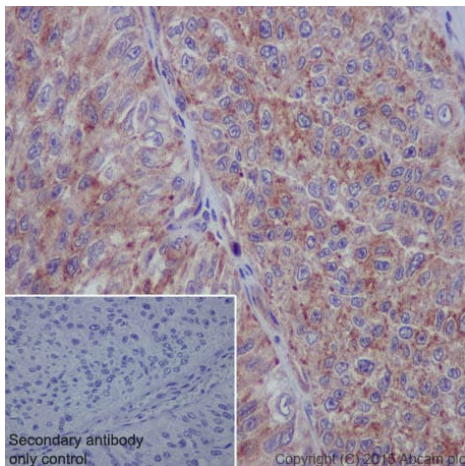
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365)

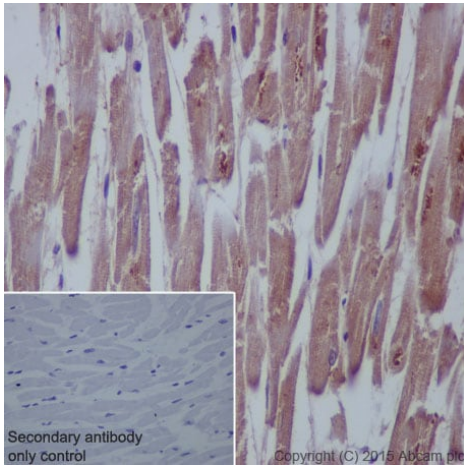
ab109365, at 1/50 dilution, staining TWEAKR/FN14 in Human uterus tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



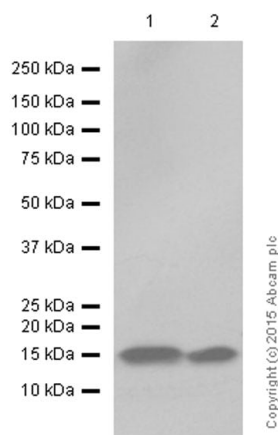
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365)

Immunohistochemical analysis of paraffin-embedded human bladder carcinoma sections labelling TWEAKR/FN14 with purified ab109365 at dilution of 1/100. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365)

Immunohistochemical analysis of paraffin-embedded human cardiac muscle sections labelling TWEAKR/FN14 with purified ab109365 at dilution of 1/100. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



Western blot - Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365)

All lanes : Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365) at 1/1000 dilution

Lane 1 : HUVEC (human umbilical vein/vascular endothelium) whole cell lysate

Lane 2 : HT-1080 (human fibrosarcoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

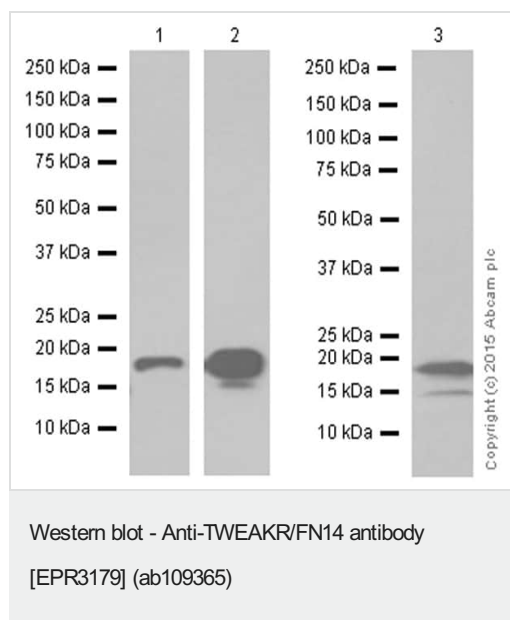
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 14 kDa

Observed band size: 14-17 kDa

Blocking/Diluting buffer 5% NFDM /TBST



All lanes : Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryo) whole cell lysate

Lane 2 : L6 (rat skeletal muscle) whole cell lysate

Lane 3 : C2C12 (mouse muscle) whole cell lysate

Lysates/proteins at 20 µg per lane.

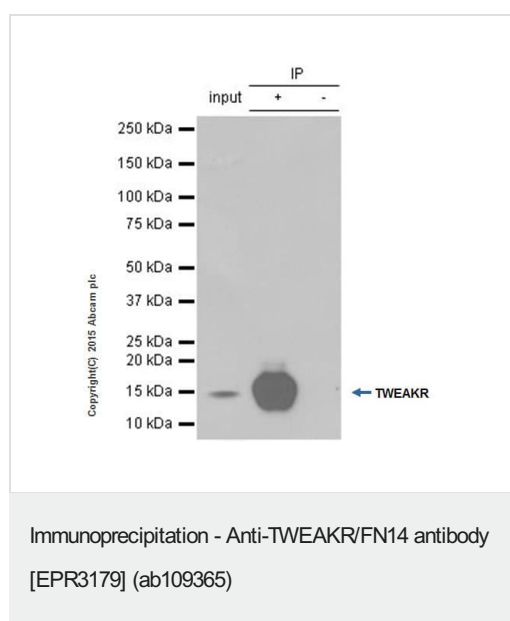
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 14 kDa

Observed band size: 14-17 kDa

Blocking/Diluting buffer 5% NFDM /TBST



ab109365 at 1/40 immunoprecipitating TWEAKR/FN14 in HUVEC (human cervix adenocarcinoma) whole cell lysate observed at 14 – 17 KDa (lanes 1 and 2).

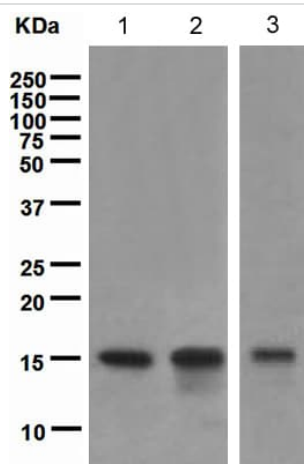
Lane 1 (input): HUVEC whole cell lysate 10ug

Lane 2 (+): ab109365 + HUVEC whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab109365 in HUVEC whole cell lysate

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution.

Blocking/Diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-TWEAKR/FN14 antibody
[EPR3179] (ab109365)

All lanes : Anti-TWEAKR/FN14 antibody [EPR3179] (ab109365)
at 1/1000 dilution

Lane 1 : HT-29 cell lysate

Lane 2 : HUVEC cell lysate

Lane 3 : HT-1080 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 14 kDa

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-TWEAKR/FN14 antibody [EPR3179]
(ab109365)

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

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