abcam

Product datasheet

Anti-TAGLN/Transgelin antibody ab14106

27 Abreviews 383 References 6 Images

Overview

Product name	Anti-TAGLN/Transgelin antibody
Description	Rabbit polyclonal to TAGLN/Transgelin
Host species	Rabbit
Specificity	The immunogen used to generate this TAGLN/Transgelin antibody (ab14106) shares 75% homology with family members TAGLN2 and TAGLN3. Cross-reactivity with these proteins has not been confirmed experimentally.
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Mouse TAGLN/Transgelin aa 150 to the C-terminus conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. (Peptide available as **ab16067**)
Positive control	WB: Human primary smooth muscle cells; HeLa whole cell lysate; Mouse colon tissue lysate; Rat colon tissue lysate. ICC/IF: HeLa cells; mouse muscle cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14106 in the following tested applications.

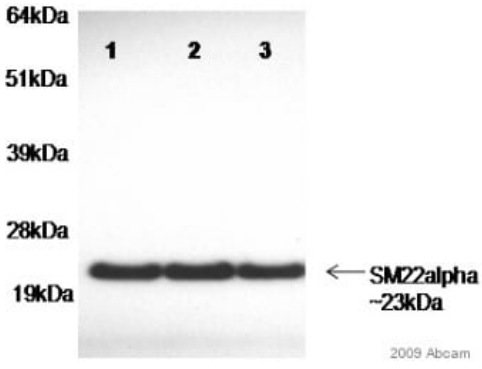
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (8)	Use a concentration of 1 - 5 µg/ml.
WB	★★★★★ (12)	Use a concentration of 1 µg/ml. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).

Target

Function	Actin cross-linking/gelling protein (By similarity). Involved in calcium interactions and contractile properties of the cell that may contribute to replicative senescence.
Sequence similarities	Belongs to the calponin family. Contains 1 calponin-like repeat. Contains 1 CH (calponin-homology) domain.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-TAGLN/Transgelin antibody (ab14106)

This image is a courtesy of Anonymous Abreview

All lanes : Anti-TAGLN/Transgelin antibody (ab14106) at 1/1000 dilution

All lanes : Lysates prepared from human primary smooth muscle cells

Lysates/proteins at 30 µg per lane.

Secondary

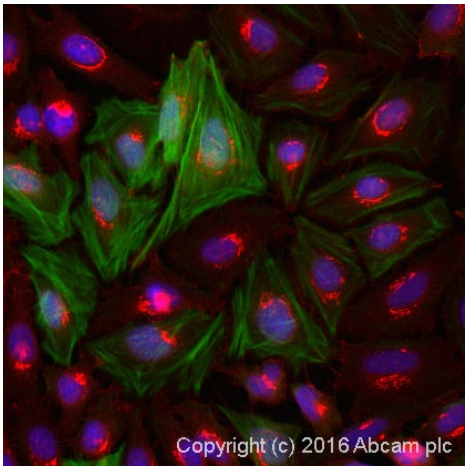
All lanes : HRP-conjugated bovine polyclonal to rabbit IgG at 1/2000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 23 kDa

Exposure time: 2 minutes

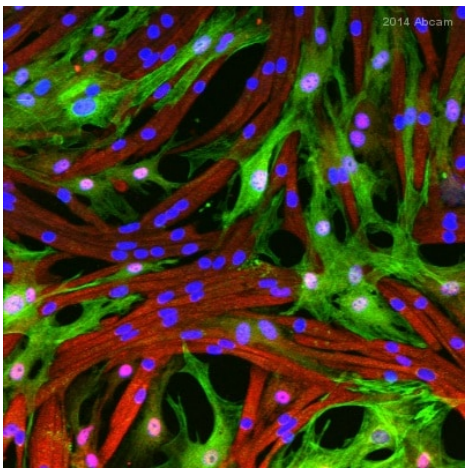


Immunocytochemistry/ Immunofluorescence - Anti-TAGLN/Transgelin antibody (ab14106)

ab14106 stained HeLa (Human epithelial cell line from cervix adenocarcinoma) cells.

The cells were fixed in 100% methanol for 5 minutes, permeabilized in 0.1% PBS-Triton X-100 for 5 minutes and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour at room temperature to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab14106 at 1 µg/ml) overnight at +4°C. The secondary antibody (pseudo-colored green) was **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed used at a 1/1000 dilution for 1 hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1 hour at room temperature.

DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1 hour at room temperature.

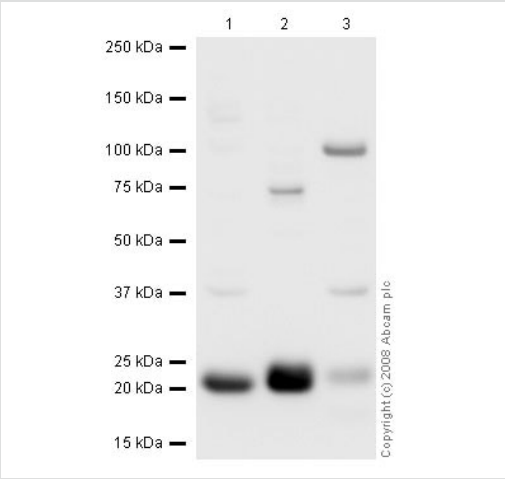


Immunocytochemistry/ Immunofluorescence - Anti-TAGLN/Transgelin antibody (ab14106)

This image is courtesy of an anonymous Abreview.

ab14106 staining SM22 alpha in mouse muscle cells by ICC/IF (Immunocytochemistry/immunofluorescence).

Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% serum for 30 minutes at 25°C. Samples were incubated with primary antibody (1/100 in PBS) for 18 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody at a dilution of 1/1000.



Western blot - Anti-TAGLN/Transgelin antibody (ab14106)

All lanes : Anti-TAGLN/Transgelin antibody (ab14106) at 1 µg/ml

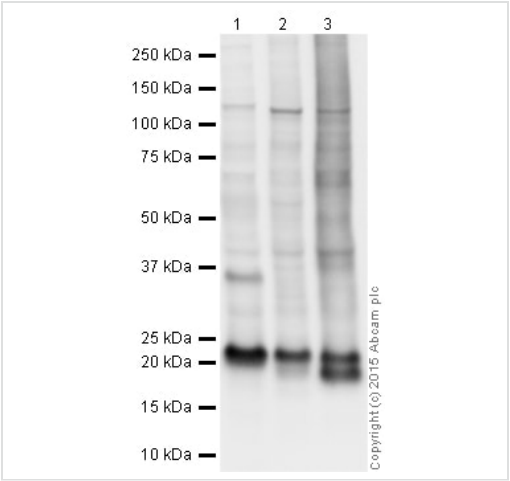
Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : HeLa nuclear extract
Lane 3 : Human skeletal muscle tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Alexa Fluor Goat polyclonal to Rabbit IgG at 1/10000 dilution

Predicted band size: 23 kDa
Observed band size: 23 kDa

The band was completed abolished by peptide blocking with **ab16067** (immunizing peptide) - not shown.



Western blot - Anti-TAGLN/Transgelin antibody (ab14106)

All lanes : Anti-TAGLN/Transgelin antibody (ab14106) at 1 µg/ml

Lane 1 : Human colon tissue lysate - total protein (**ab30051**)
Lane 2 : Mouse colon tissue lysate
Lane 3 : Rat colon tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

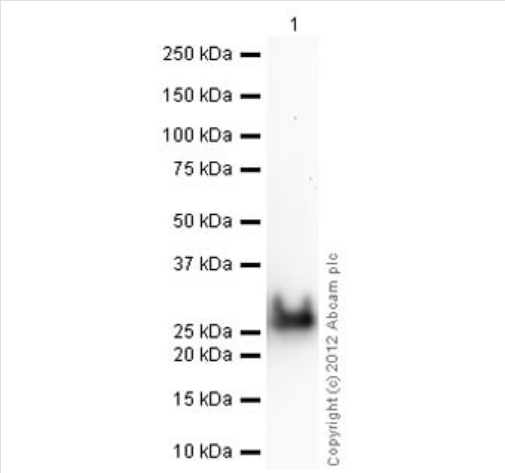
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 23 kDa
Additional bands at: 115 kDa, 20 kDa, 36 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 5 seconds

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab14106 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



Western blot - Anti-TAGLN/Transgelin antibody (ab14106)

Anti-TAGLN/Transgelin antibody (ab14106) at 1 µg/ml + Recombinant Human TAGLN/Transgelin protein (**ab101469**) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 23 kDa

Exposure time: 30 seconds

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