


### Anti-Transglutaminase 2 antibody [EP2957] ab109200

KO 評価済 リコンビナント RabMAb

★★★★☆ 1 Abreviews 11 References 画像数 6

#### 製品の概要

製品名	Anti-Transglutaminase 2 antibody [EP2957]
製品の詳細	Rabbit monoclonal [EP2957] to Transglutaminase 2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Human 交差が予測される動物種: Mouse 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: U87-MG, A549, HeLa and HUVEC cell lysates. IHC-P: Human kidney tissue. IHC-Fr: Mouse kidney and heart tissue.
特記事項	<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>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EP2957
アイソタイプ	IgG

## アプリケーション

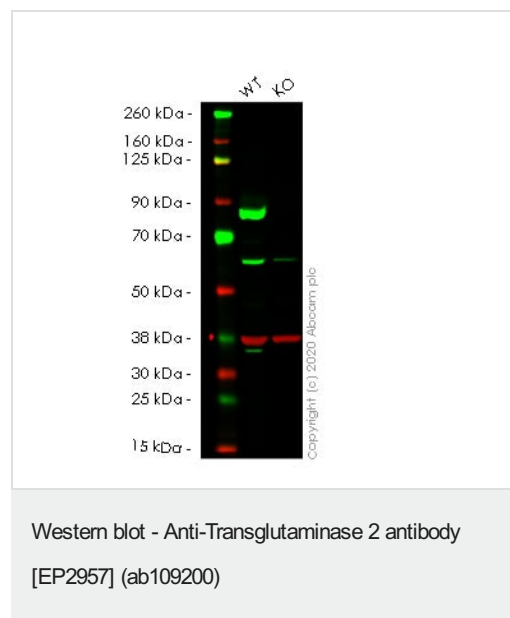
**The Abpromise guarantee** **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab109200の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/10000 - 1/50000. Predicted molecular weight: 77 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## ターゲット情報

機能	Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.
配列類似性	Belongs to the transglutaminase superfamily. Transglutaminase family.

## 画像



**All lanes :** Anti-Transglutaminase 2 antibody [EP2957] (ab109200)  
at 1/10000 dilution

**Lane 1 :** Wild-type A549 cell lysate

**Lane 2 :** TGM2 knockout A549 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

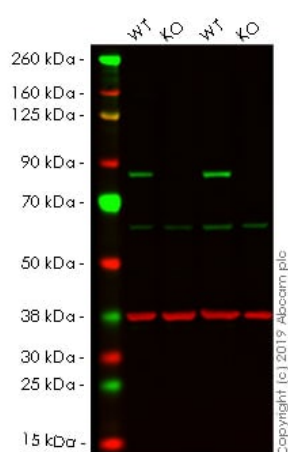
**Predicted band size:** 77 kDa

**Observed band size:** 77 kDa

**Lanes 1-2:** Merged signal (red and green). Green - ab109200 observed at 77 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab109200 Anti-Transglutaminase 2 antibody [EP2957] was shown to specifically react with Transglutaminase 2 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267110**

(knockout cell lysate [ab257087](#)) was used. Wild-type and Transglutaminase 2 knockout samples were subjected to SDS-PAGE. ab109200 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 10000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Transglutaminase 2 antibody [EP2957] (ab109200)

**All lanes :** Anti-Transglutaminase 2 antibody [EP2957] (ab109200) at 1/1000 dilution

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

**Lane 2 :** TGM2 knockout HeLa cell lysate

**Lane 3 :** Wild-type A549 cell lysate

**Lane 4 :** TGM2 knockout A549 cell lysate

Lysates/proteins at 20 µg per lane.

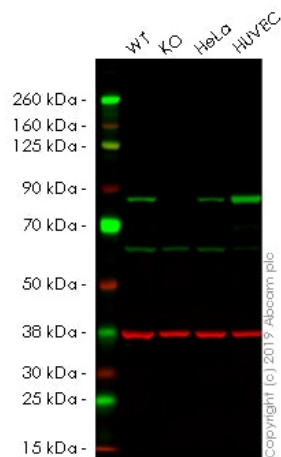
Performed under reducing conditions.

**Predicted band size:** 77 kDa

**Observed band size:** 77 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab109200 observed at 77 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

ab109200 Anti-Transglutaminase 2 antibody [EP2957] was shown to specifically react with Transglutaminase 2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265245](#) (knockout cell lysate [ab257085](#)) was used. Wild-type and Transglutaminase 2 knockout samples were subjected to SDS-PAGE. ab109200 and Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker ([ab52866](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Transglutaminase 2 antibody  
[EP2957] (ab109200)

**All lanes :** Anti-Transglutaminase 2 antibody [EP2957] (ab109200)  
at 1/1000 dilution

**Lane 1 :** Wild-type A549 whole cell lysate

**Lane 2 :** TGM2 knockout A549 whole cell lysate

**Lane 3 :** HeLa whole cell lysate

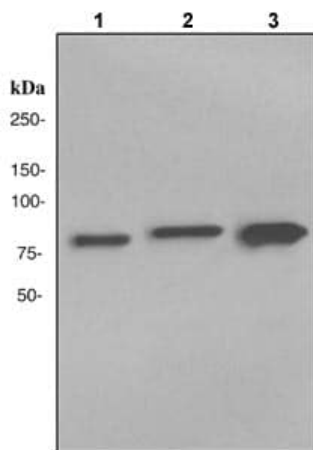
**Lane 4 :** HUVEC whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 77 kDa

**Lanes 1 -4:** Merged signal (red and green). Green - ab109200 observed at 77 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109200 was shown to recognize TGM2 in wild-type A549 cells as signal was lost at the expected MW in TGM2 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and TGM2 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab109200 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 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.



Western blot - Anti-Transglutaminase 2 antibody  
[EP2957] (ab109200)

**All lanes :** Anti-Transglutaminase 2 antibody [EP2957] (ab109200)  
at 1/10000 dilution

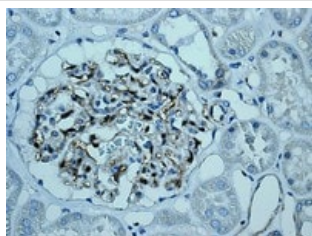
**Lane 1 :** U87-MG cell lysate

**Lane 2 :** A549 cell lysate

**Lane 3 :** HUVEC cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 77 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Transglutaminase 2  
antibody [EP2957] (ab109200)

ab109200, at 1/100 dilution, staining Transglutaminase 2 in  
paraffin-embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6  
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-Transglutaminase 2 antibody [EP2957]  
(ab109200)

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