abcam

Product datasheet

Anti-CD105 antibody [EPR10145-12] ab169545

KO 評価済 リコンビナント RabMAb

3 Abreviews 16 References 画像数 14

製品の概要

製品名	Anti-CD105 antibody [EPR10145-12]
製品の詳細	Rabbit monoclonal [EPR10145-12] to CD105
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
免疫原	Recombinant fragment corresponding to Human CD105 aa 1-200. Database link: **P17813**
ポジティブ・コントロール	WB: HeLa, ECV-304 and HUVEC cell lysates; Human tonsil tissue lysate; Immunoprecipitation pellet from ECV-304 cell lysate. IHC-P: Human glioma, clear cell carcinoma, tonsil and kidney tissues.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR10145-12

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ab169545の使用に適用されます**

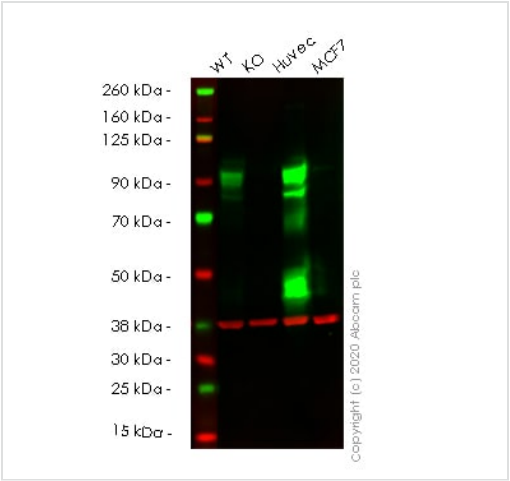
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (1)	1/1000 - 1/2000. Predicted molecular weight: 70 kDa. **For unpurified use at 1/50.**
IHC-P	★★★★★ (2)	1/900. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/30.**

ターゲット情報

機能	Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.
組織特異性	Endoglin is restricted to endothelial cells in all tissues except bone marrow.
関連疾患	Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1) [MIM:187300, 108010]; also known as Osler-Rendu-Weber syndrome 1 (ORW1). HHT1 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia. Although the first symptom of HHT1 in children is generally nose bleed, there is an important clinical heterogeneity.
細胞内局在	Membrane.

画像



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

All lanes : Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : ENG knockout HeLa cell lysate
Lane 3 : HUVEC cell lysate
Lane 4 : MCF7 cell lysate

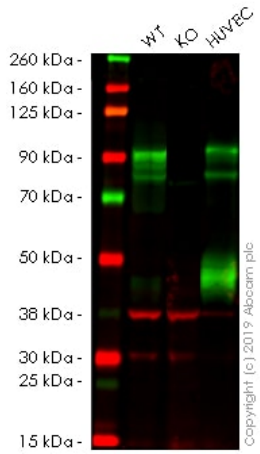
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 70 kDa
Observed band size: 70-120 kDa

Lanes 1-4: Merged signal (red and green). Green - ab169545 observed at 70-120 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab169545 Anti-CD105 antibody [EPR10145-12] was shown to specifically react with CD105 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265178** (knockout cell lysate **ab256906**) was used. Wild-type and CD105 knockout samples were subjected to SDS-PAGE. ab169545 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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-CD105 antibody [EPR10145-12] (ab169545)

All lanes : Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1000 dilution

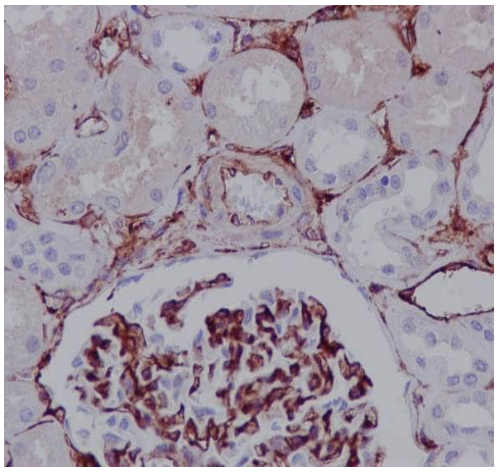
Lane 1 : Wild-type HeLa whole cell lysate
Lane 2 : CD105 knockout HeLa whole cell lysate
Lane 3 : HUVEC whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 70 kDa

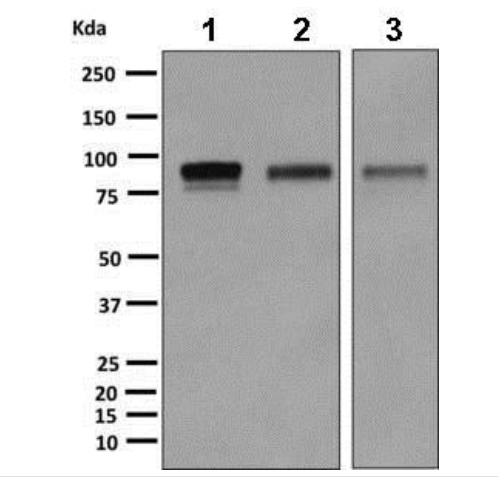
Lanes 1 - 3: Merged signal (red and green). Green - ab169545 observed at 70 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab169545 was shown to recognize CD105 in wild-type HeLa cells as signal was lost at the expected MW in CD105 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and CD105 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% milk. Ab169545 and **ab8245** (Mouse anti-GAPDH 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [EPR10145-12] (ab169545)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling CD105 with unpurified ab169545 at 1/30. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

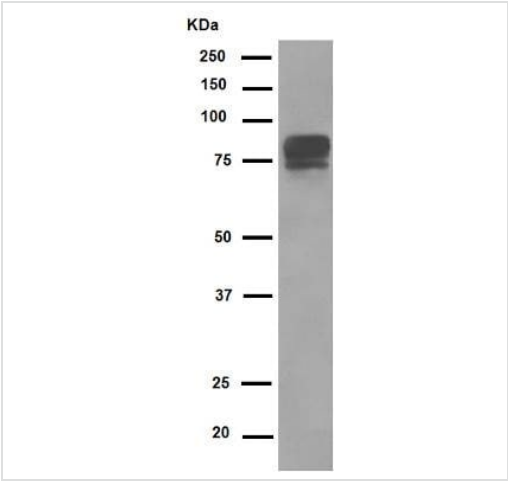
All lanes : Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1000 dilution (unpurified)

Lane 1 : ECV-304 cell lysate
Lane 2 : Human tonsil cell lysate
Lane 3 : HUVEC cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labeled goat anti-rabbit at 1/2000 dilution

Predicted band size: 70 kDa



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/50 dilution (unpurified) + ECV-304 cell lysate at 10 µg

Secondary

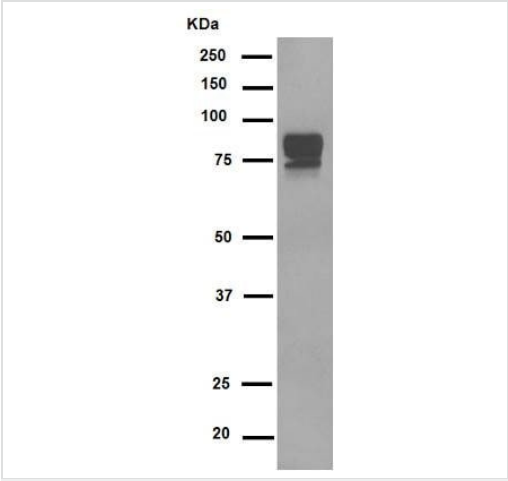
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 70 kDa

Observed band size: 95 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1200 dilution (purified) + ECV-304 cell lysate at 10 µg

Secondary

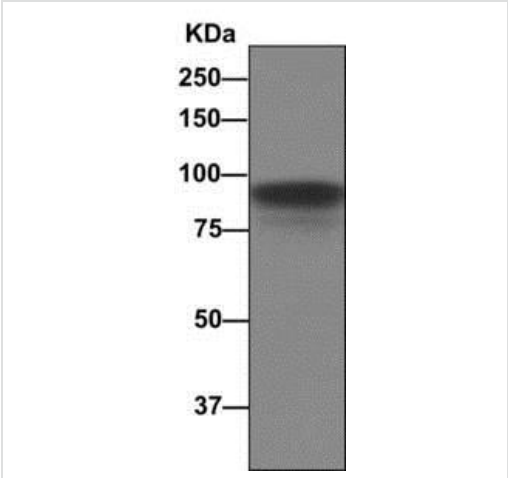
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 70 kDa

Observed band size: 95 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



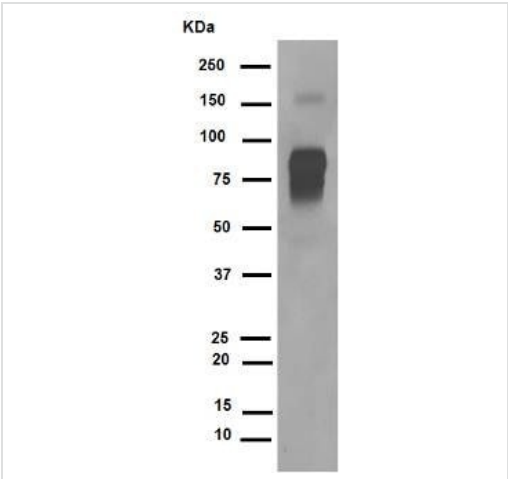
Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1000 dilution (unpurified) + immunoprecipitation pellet from ECV-304 cell lysate

Secondary

HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG

Predicted band size: 70 kDa



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/50 dilution (unpurified) + HUVEC cell lysate at 10 µg

Secondary

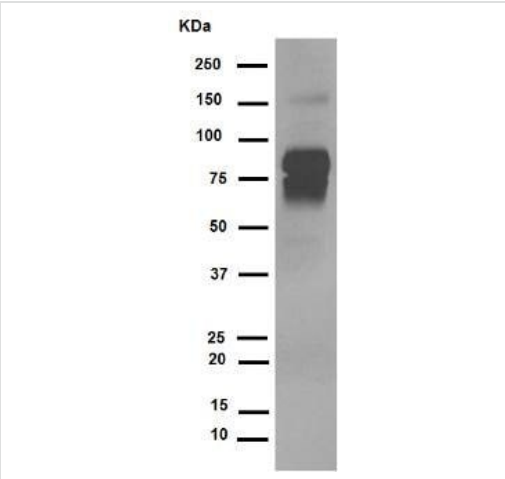
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 70 kDa

Observed band size: 95 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-CD105 antibody [EPR10145-12] (ab169545)

Anti-CD105 antibody [EPR10145-12] (ab169545) at 1/1200 dilution (purified) + HUVEC cell lysate at 10 µg

Secondary

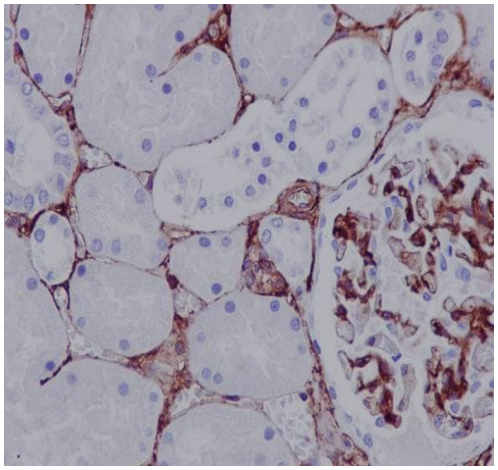
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 70 kDa

Observed band size: 95 kDa

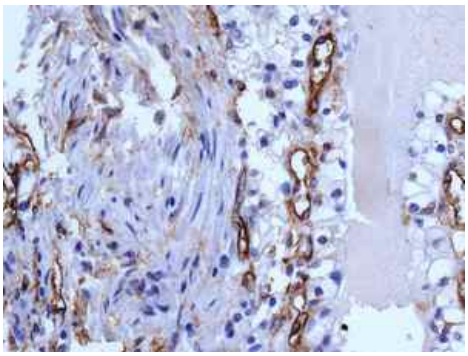
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



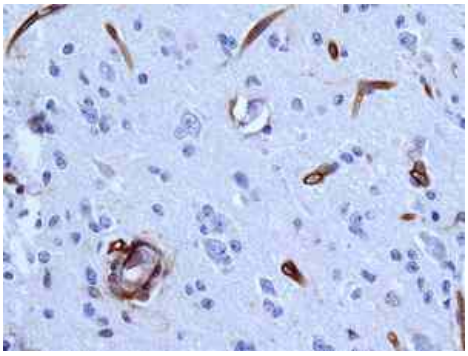
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [EPR10145-12] (ab169545)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling CD105 with purified ab169545 at 1/900. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



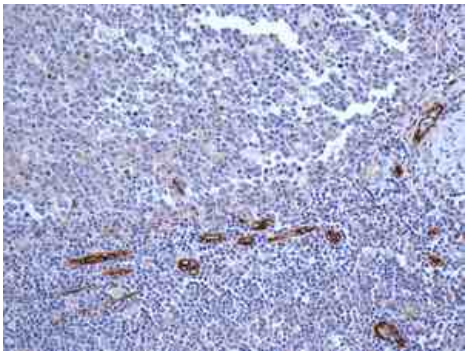
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [EPR10145-12] (ab169545)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis human clear cell carcinoma tissue labelling CD105 with unpurified ab169545 at 1/250.



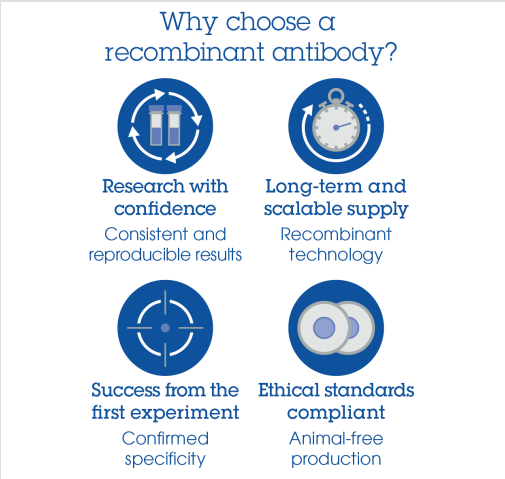
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [EPR10145-12] (ab169545)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human glioma tissue labelling CD105 with unpurified ab169545 at 1/250.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD105 antibody [EPR10145-12] (ab169545)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD105 with unpurified ab169545 at 1/250.



Anti-CD105 antibody [EPR10145-12] (ab169545)

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