abcam

Product datasheet

Anti-CD166 antibody [EPR2759(2)] ab109215

KO 評価済 リコンビナント RabMAb

3 Abreviews 22 References 画像数 11

製品の概要

製品名	Anti-CD166 antibody [EPR2759(2)]
製品の詳細	Rabbit monoclonal [EPR2759(2)] to CD166
由来種	Rabbit
アプリケーション	**適用あり:** WB, IP, IHC-P, Flow Cyt, ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
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: SH-SY5Y, HuT-78, HT1080, Daudi and HeLa whole cell lysate (**ab150035**). Mouse and rat brain tissue lysates; Wild-type HAP1 whole cell lysate. IHC-P: Human liver and prostatic adenocarcinoma tissues. ICC/IF: THP-1 cells. Flow Cyt: HuT-78 cells. IP: SH-SY5Y cell lysate.
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. Stable for 12 months at -20°C.
バッファー	pH: 7.2 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	EPR2759(2)

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ab109215の使用に適用されます

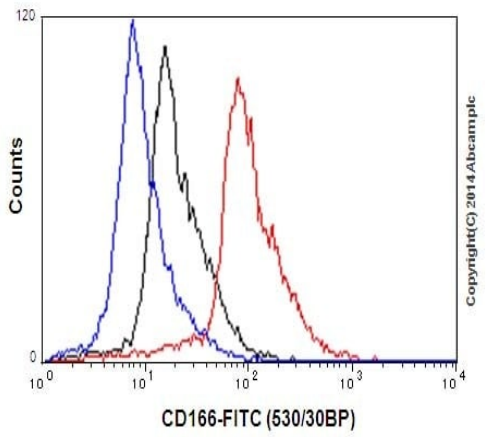
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (1)	1/10000 - 1/20000. Detects a band of approximately 100-105 kDa (predicted molecular weight: 65 kDa). **For unpurified use at 1/1000 - 1/10000.**
IP	★★★★★ (1)	1/30. **For unpurified use at 1/10 - 1/100.**
IHC-P	★★★★☆ (1)	1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/100 - 1/250.**
Flow Cyt		1/90. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50 - 1/250.

ターゲット情報

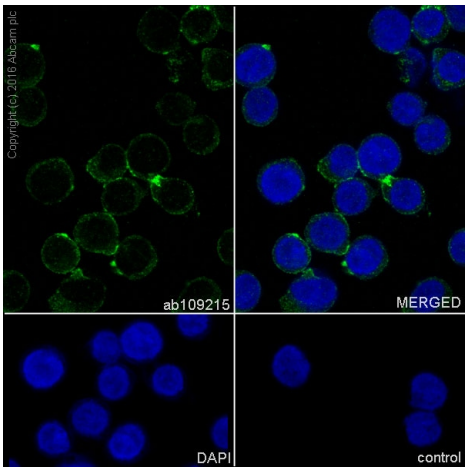
機能	Cell adhesion molecule that binds to CD6. Involved in neurite extension by neurons via heterophilic and homophilic interactions. May play a role in the binding of T- and B-cells to activated leukocytes, as well as in interactions between cells of the nervous system.
組織特異性	Spleen, placenta, liver, and weakly in liver. Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells. Expressed by neurons in the brain. Restricted expression in tumor cell lines. Preferentially expressed in highly metastasizing melanoma cell lines.
配列類似性	Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 Ig-like V-type (immunoglobulin-like) domains.
ドメイン	The CD6 binding site is located in the N-terminal Ig-like domain.
細胞内局在	Membrane.

画像



Flow Cytometry - Anti-CD166 antibody [EPR2759(2)] (ab109215)

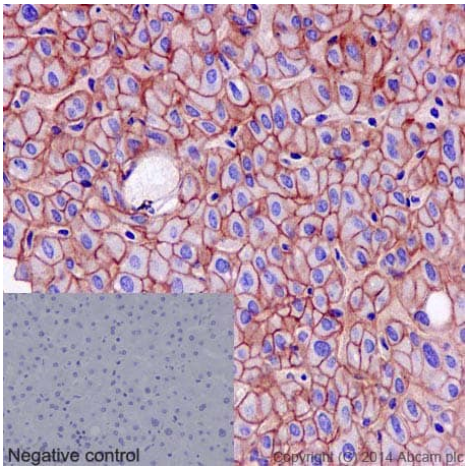
Flow Cytometry analysis of HuT-78 cells labelling CD166 with purified ab109215 at 1/90 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-CD166 antibody [EPR2759(2)] (ab109215)

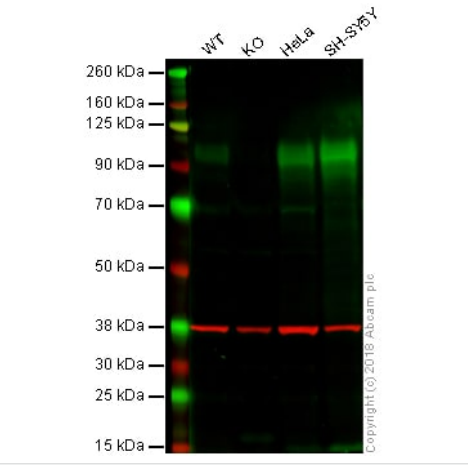
Immunocytochemistry/Immunofluorescence analysis of THP-1 (human monocytic leukemia cell line) cells labelling CD166 (green) with purified ab109215 at 1/250. Cells were fixed with 100% methanol. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as a nuclear counterstain.

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD166 antibody [EPR2759(2)] (ab109215)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling CD166 with purified ab109215 at 1/50. 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. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

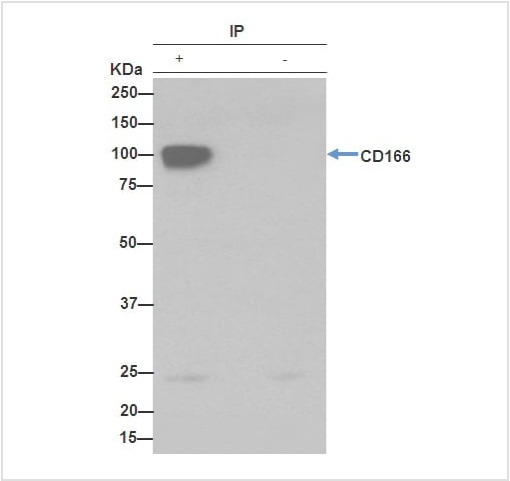


Western blot - Anti-CD166 antibody [EPR2759(2)] (ab109215)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: CD166 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: SH-SY5Y whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109215 observed at 100 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab109215 was shown to specifically react with CD166 in wild-type HAP1 cells as signal was lost in CD166 knockout cells. Wild-type and CD166 knockout samples were subjected to SDS-PAGE. Ab109215 and **ab9484** (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-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

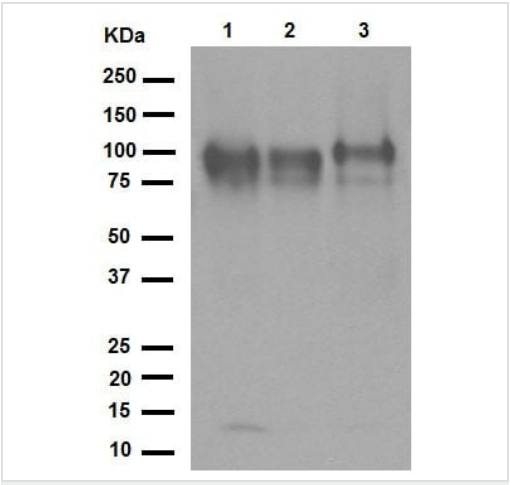


Immunoprecipitation - Anti-CD166 antibody [EPR2759(2)] (ab109215)

ab109215 (purified) at 1/30 immunoprecipitating CD166 in SH-SY5Y (human neuroblastoma cell line from bone marrow) cell lysate (Lane 1). Lane 2 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-CD166 antibody [EPR2759(2)] (ab109215)

All lanes : Anti-CD166 antibody [EPR2759(2)] (ab109215) at 1/10000 dilution (purified)

Lane 1 : SH-SY5Y (human neuroblastoma cell line from bone marrow) cell lysate
Lane 2 : HuT-78 cell lysate
Lane 3 : HT-1080 (human fibrosarcoma cell line) cell lysate

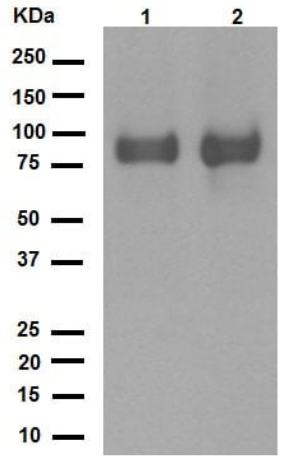
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 65 kDa
Observed band size: 100-105 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-CD166 antibody [EPR2759(2)] (ab109215)

All lanes : Anti-CD166 antibody [EPR2759(2)] (ab109215) at 1/10000 dilution (purified)

Lane 1 : Mouse brain tissue lysate
Lane 2 : Rat brain tissue lysate

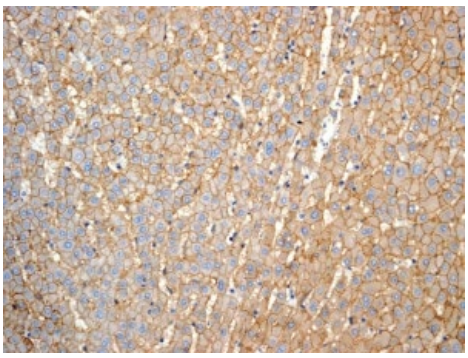
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 65 kDa
Observed band size: 100-105 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

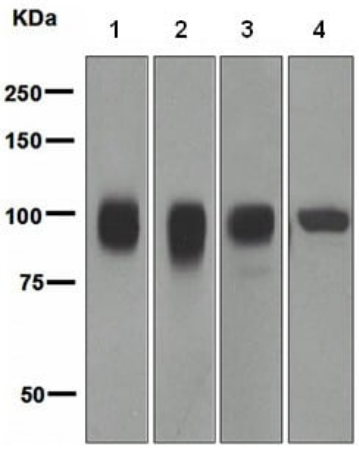
Diluting buffer and concentration: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD166 antibody [EPR2759(2)] (ab109215)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling CD166 with unpurified ab109215 at 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-CD166 antibody [EPR2759(2)] (ab109215)

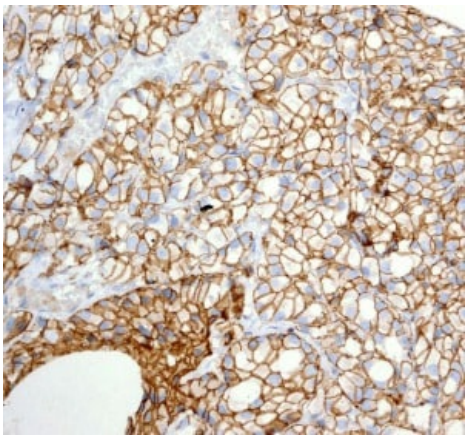
All lanes : Anti-CD166 antibody [EPR2759(2)] (ab109215) at 1/1000 dilution (unpurified)

Lane 1 : SH-SY5Y (human neuroblastoma cell line from bone marrow) cell lysate
Lane 2 : HuT-78 cell lysate
Lane 3 : HT1080 (human fibrosarcoma cell line) cell lysate
Lane 4 : Daudi (human Burkitt's lymphoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 65 kDa
Observed band size: 100-105 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD166 antibody [EPR2759(2)] (ab109215)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostatic adenocarcinoma tissue labelling CD166 with unpurified ab109215 at 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Anti-CD166 antibody [EPR2759(2)] (ab109215)

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