abcam

Product datasheet

Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker ab109517

リコンビナント RabMAb

★★★★★ 6 Abreviews 52 References 画像数 11

製品の概要

製品名	Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker
製品の詳細	Rabbit monoclonal [EP4182] to Islet 1 - Neural Stem Cell Marker
由来種	Rabbit
特異性	86% identities with Islet 2
アプリケーション	**適用あり:** ICC/IF, WB, IP, Flow Cyt (Intra)
種交差性	**交差種:** Mouse, Chicken, 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: K562, HeLa, Jurkat and SH-SY5Y cell lysates. IHC-Fr: Chicken hindbrain tissue. ICC/IF: U-87 MG cell line.
特記事項	Insulin gene enhancer protein ISL-1 is a protein encoded by the ISL1 gene. Among other roles, ISL-1 plays a part in the embryogenesis of pancreatic islets of Langerhans and some models, deficiency have shown failure of neural tube motor neurons to differentiate. Rat: We have preliminary testing data to indicate this antibody may not react with these species. Please contact us for more information. 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. Avoid freeze / thaw cycle.

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP4182
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ab109517の使用に適用されます

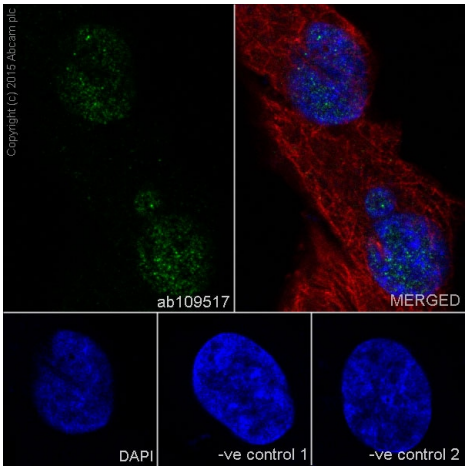
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (1)	1/250. **For unpurified use at 1/50 - 1/100.**
WB		1/10000 - 1/50000. Predicted molecular weight: 39 kDa.
IP		1/10 - 1/100.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	Binds to one of the cis-acting domain of the insulin gene enhancer.
組織特異性	Expressed in subsets of neurons of the adrenal medulla and dorsal root ganglion, inner nuclear and ganglion cell layers in the retina, the pineal and some regions of the brain.
配列類似性	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
細胞内局在	Nucleus.

画像

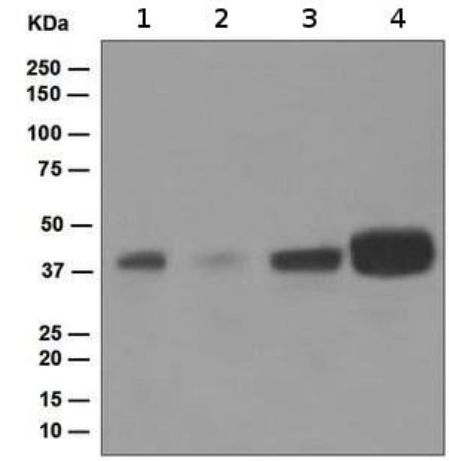


Immunocytochemistry/ Immunofluorescence - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

Immunocytochemistry/Immunofluorescence analysis of SH-SY-5Y (human neuroblastoma) cells labelling Islet 1 with purified ab109517 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



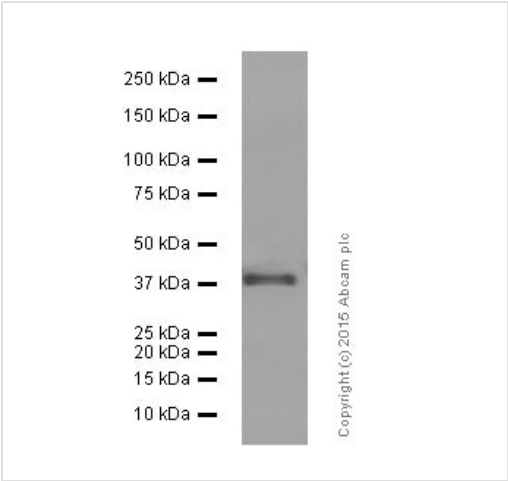
Western blot - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

All lanes : Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517) at 1/10000 dilution (unpurified)

Lane 1 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate
Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate
Lane 4 : SH-SY5Y (Human neuroblastoma cell line from bone marrow) cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 39 kDa



Western blot - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

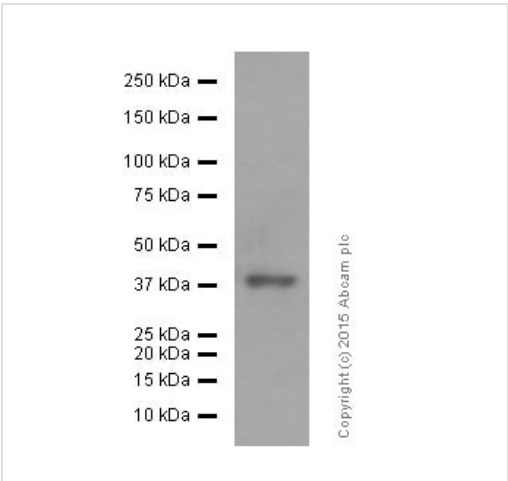
Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517) at 1/50000 dilution (purified) + RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 39 kDa

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



Western blot - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

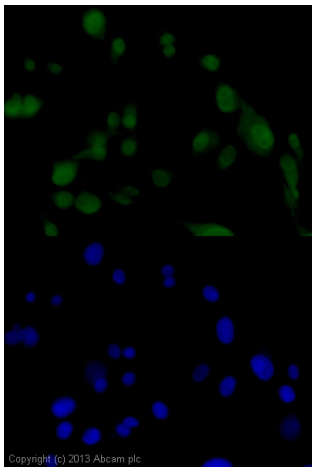
Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517) at 1/10000 dilution (purified) + UMNSAH/DF-1 cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

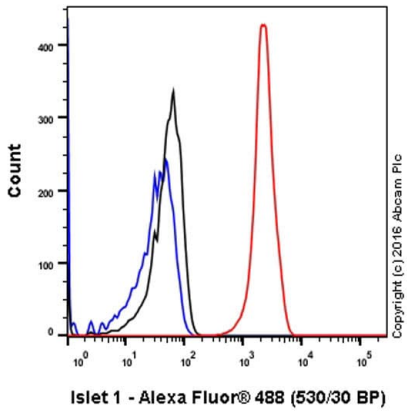
Predicted band size: 39 kDa

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



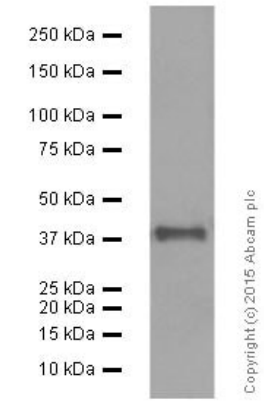
Immunocytochemistry/ Immunofluorescence - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

Immunocytochemistry/Immunofluorescence analysis of U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling Islet 1 with unpurified ab109517.



Flow Cytometry (Intracellular) - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

Intracellular Flow Cytometry analysis of SH-SY5Y (human neuroblastoma) cells labeling Islet 1 with purified ab109517 at 1/50 dilution (10µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A Goat anti rabbit IgG (Alexa Fluorr® 488) (1/2000) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Western blot - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

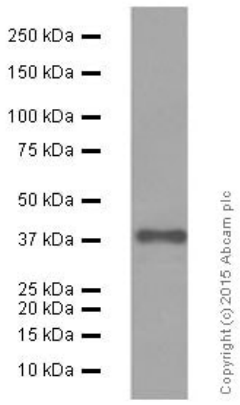
Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517) at 1/50000 dilution (purified) + HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 39 kDa

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



Western blot - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

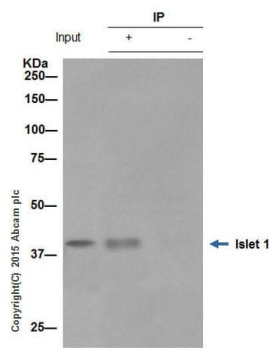
Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517) at 1/50000 dilution (purified) + K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 39 kDa

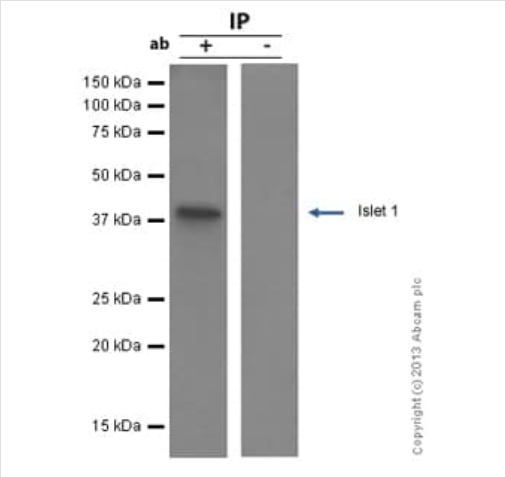
Blocking/Dilution buffer and concentration: 5% NFDM/TBST.



Immunoprecipitation - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

ab109517 (purified) at 1/30 immunoprecipitating Islet 1 in Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate. 10 µg of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent (**ab131366**) (1/1,500) was used for detection. A rabbit monoclonal IgG (**ab172730**) was used intead of **ab128913** as a negative control (Lane 3).

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



Immunoprecipitation - Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

ab109517 (unpurified) immunoprecipitating Islet 1 in Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate.

Anti-Islet 1 antibody [EP4182] - Neural Stem Cell Marker (ab109517)

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