

### Anti-VGluT1 antibody [N28-9] ab134283

★★★★★ [6 Abreviews](#) [3 References](#) [画像数 3](#)

#### 製品の概要

製品名	Anti-VGluT1 antibody [N28-9]
製品の詳細	Mouse monoclonal [N28-9] to VGluT1
由来種	Mouse
アプリケーション	<b>適用あり:</b> WB, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human, Mouse and Rat brain tissue lysates. IHC-P: Rat brain tissue.
特記事項	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>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.</p> <p>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&amp;As</p>

#### 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	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	N28-9
ミエローマ	Sp2/0
アイソタイプ	IgG1

軽鎖の種類

kappa

アプリケーション

The Abpromise guarantee

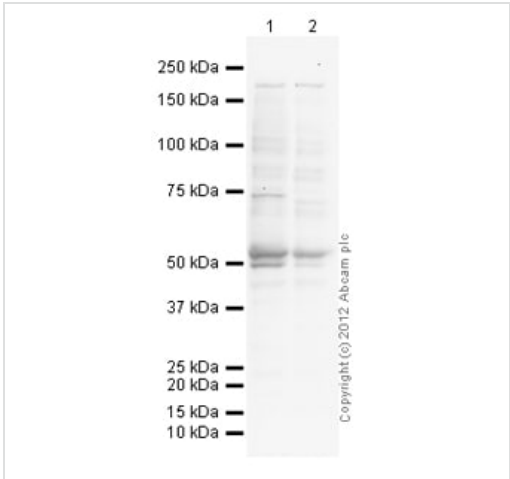
Abpromise保証は、次のテスト済みアプリケーションにおけるab134283の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	Use a concentration of 5 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 61 kDa).
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ターゲット情報

機能	Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.
組織特異性	Expressed in several regions of the brain including amygdala, cerebellum, cerebral cortex, hippocampus, frontal lobe, medulla, occipital lobe, putamen and temporal lobe.
配列類似性	Belongs to the major facilitator superfamily. Sodium/anion cotransporter family. VGLUT subfamily.
細胞内局在	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Membrane. Cell junction, synapse, synaptosome.

画像



Western blot - Anti-VGluT1 antibody [N28-9] (ab134283)

All lanes : Anti-VGluT1 antibody [N28-9] (ab134283) at 5 µg/ml

Lane 1 : Human brain tissue lysate - total protein (ab29466)

Lane 2 : Brain (Rat) Tissue Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal Secondary Antibody to Mouse IgG - H&L (HRP), pre-adsorbed at 1/10000 dilution

Developed using the ECL technique.

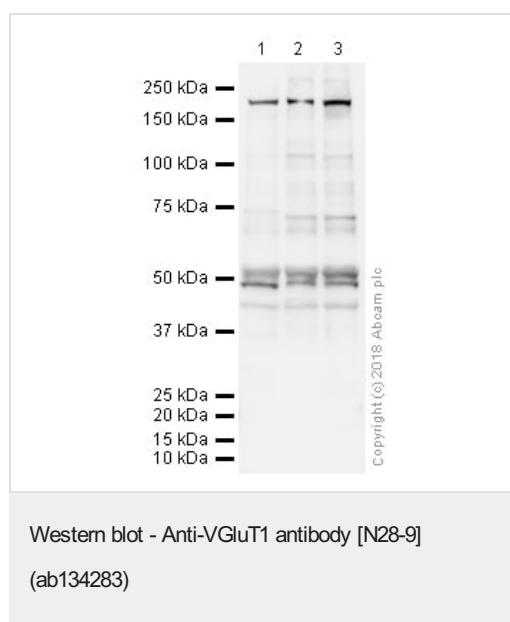
Performed under reducing conditions.

Predicted band size: 61 kDa

Observed band size: 50,55 kDa

**Exposure time:** 20 minutes

This blot was produced using a 10% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab134283 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



**All lanes :** Anti-VGluT1 antibody [N28-9] (ab134283) at 5 µg

**Lane 1 :** Human Brain Tissue Lysate

**Lane 2 :** Rat Brain Tissue Lysate

**Lane 3 :** Mouse Brain Tissue Lysate

Lysates/proteins at 20 µg per lane.

#### **Secondary**

**All lanes :** Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) ([ab65485](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 61 kDa

**Observed band size:** 50,55 kDa

**Additional bands at:** 200 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 30 seconds

This blot was produced using a 10% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab134283 overnight at

4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VGluT1 antibody [N28-9] (ab134283)

IHC image of VGluT1 staining in rat brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab134283, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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