

Anti-SHANK1 antibody [N22/21] ab94576

3 References [画像数 3](#)

製品の概要

製品名	Anti-SHANK1 antibody [N22/21]
製品の詳細	Mouse monoclonal [N22/21] to SHANK1
由来種	Mouse
特異性	ab94576 does not react with SHANK2 and SHANK3
アプリケーション	適用あり: IHC-P, WB, Flow Cyt
種交差性	交差種: Mouse, Rat, Human
免疫原	Fusion protein corresponding to Rat SHANK1 aa 450-700. Database link: Q9WV48
ポジティブ・コントロール	Rat brain lysate
特記事項	<p>The clone number has been updated from S22-21 to N22/21, both clone numbers name the same antibody clone.</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&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	N22/21
アイソタイプ	IgG1

アプリケーション

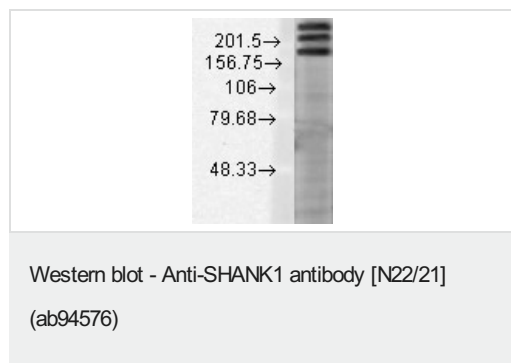
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab94576の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 10 µg/ml. Predicted molecular weight: 225 kDa.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

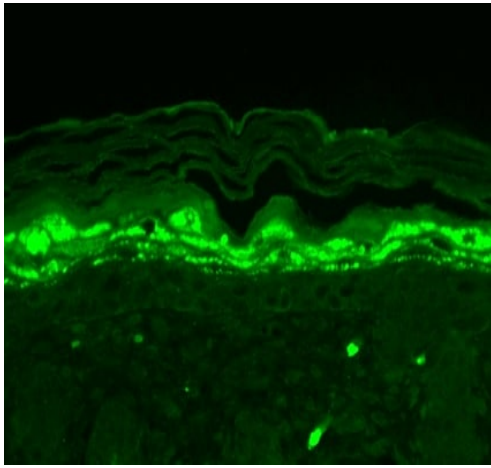
ターゲット情報

機能	Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors via complexes with GKAP/PSD-95 and Homer, respectively, and the actin-based cytoskeleton. Plays a role in the structural and functional organization of the dendritic spine and synaptic junction.
組織特異性	Expressed in brain particularly in the amygdala, hippocampus, substantia nigra and thalamus. Isoform 2 seems to be expressed ubiquitously.
配列類似性	Belongs to the SHANK family. Contains 6 ANK repeats. Contains 1 PDZ (DHR) domain. Contains 1 SAM (sterile alpha motif) domain. Contains 1 SH3 domain.
細胞内局在	Cytoplasm. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cell junction > synapse. Postsynaptic density of neuronal cells.

画像

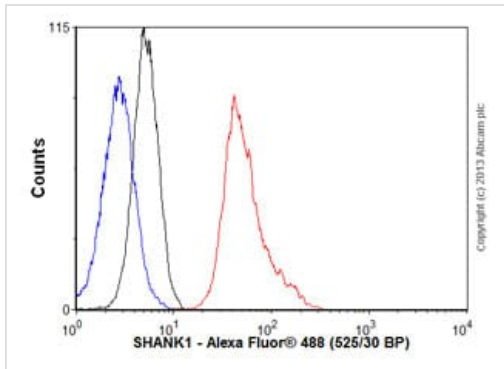


Western blot detection of Shank1 in Rat brain membrane lysates using ab94576 at 1:1000 dilution.



Immunohistochemistry paraffin embedded sections -
Anti-SHANK1 antibody [N22/21] (ab94576)

paraffin-embedded, bouin's-fixed mouse backskin stained for SHANK1 using ab94576 at 1/100 dilution in immunohistochemical analysis. FITC Goat Anti-Mouse (green) at 1/50 dilution was used as the secondary antibody. Filaggrinlike staining (upper layer aggregations of staining) is observed.



Flow Cytometry - Anti-SHANK1 antibody [N22/21]
(ab94576)

Overlay histogram showing SH-SY5Y cells stained with ab94576 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab94576, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in SH-SY5Y cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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