




Anti-SHANK3 antibody [S69] ab93607

リコンビナント

★★★★☆ **1 Abreviews** **4 References** 画像数 3

製品の概要

製品名	Anti-SHANK3 antibody [S69]
製品の詳細	Mouse monoclonal [S69] to SHANK3
由来種	Mouse
特異性	No cross-reactivity with SHANK1 or SHANK2.
アプリケーション	適用あり: WB, IHC-P, Flow Cyt
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Horse, Cow 
免疫原	Synthetic peptide corresponding to Rat SHANK3 aa 800-900 (internal sequence). Database link: Q9JLU4  Run BLAST with  Run BLAST with
特記事項	The clone number has been updated from S69-46 to N69/46, both clone numbers name the same antibody clone. 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. 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

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, PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	S69

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ab93607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		1/1000. Detects a band of approximately 190 kDa (predicted molecular weight: 186 kDa).
IHC-P		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170192 - Mouse monoclonal IgG2b, 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. May play a role in the structural and functional organization of the dendritic spine and synaptic junction.

組織特異性

Expressed in the cerebral cortex and the cerebellum.

関連疾患

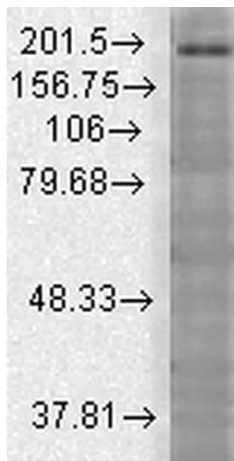
Note=A chromosomal aberration involving SHANK3 is found in patients with chromosome 22q13.3 deletion syndrome. Translocation t(12;22)(q24.1;q13.3) with APPL2/DIP13B.
Note=Defects in SHANK3 are associated with autism spectrum disorders (ASD). ASD are characterized by impairments in reciprocal social interaction and communication as well as restricted and stereotyped patterns of interest and activities. ASD include forms with moderate to severe cognitive impairment and milder forms with higher cognitive ability (Asperger syndrome). Defects in SHANK3 are the cause of schizophrenia type 15 (SCZD15) [MIM:613950]. SCZD15 is a complex, multifactorial psychotic disorder or group of disorders characterized by disturbances in the form and content of thought (e.g. delusions, hallucinations), in mood (e.g. inappropriate affect), in sense of self and relationship to the external world (e.g. loss of ego boundaries, withdrawal), and in behavior (e.g. bizarre or apparently purposeless behavior). Although it affects emotions, it is distinguished from mood disorders in which such disturbances are primary. Similarly, there may be mild impairment of cognitive function, and it is distinguished from the dementias in which disturbed cognitive function is considered primary. Some patients manifest schizophrenic as well as bipolar disorder symptoms and are often given the diagnosis of schizoaffective disorder.

配列類似性

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. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Postsynaptic density of neuronal cells.



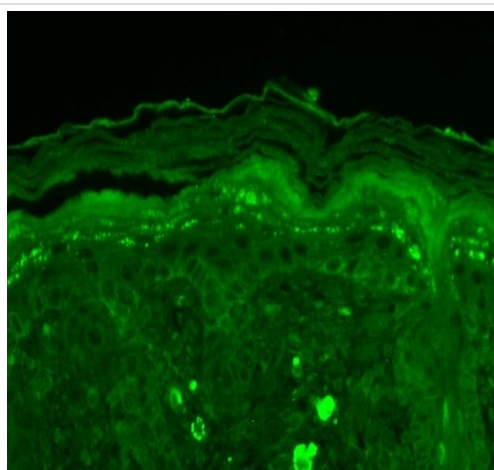
Western blot - Anti-SHANK3 antibody [S69]
(ab93607)

Anti-SHANK3 antibody [S69] (ab93607) at 1/1000 dilution + Rat brain membrane lysate at 15 µg

Secondary

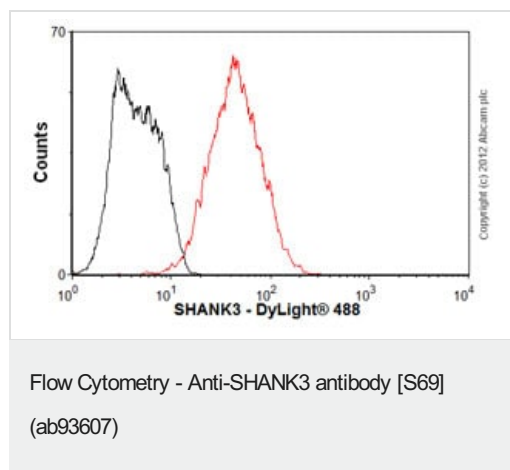
Sheep Anti-Mouse IgG-HRP

Predicted band size: 186 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHANK3 antibody [S69]
(ab93607)

Immunohistochemical analysis of mouse backskin tissue sections labling SHANK3 with ab93607 at 1/100 dilution. FITC Goat anti-mouse at 1/50 was used as the secondary antibody.



Overlay histogram showing SH-SY5Y cells stained with ab93607 (red line). The cells were fixed with 4% paraformaldehyde (10 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. The cells were then incubated with the antibody (ab93607, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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