




Anti-SHANK3 antibody [S69] ab93607

重组

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概述

产品名称	Anti-SHANK3抗体[S69]
描述	小鼠单克隆抗体[S69] to SHANK3
宿主	Mouse
特异性	No cross-reactivity with SHANK1 or SHANK2.
经测试应用	适用于: WB, IHC-P, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human 预测可用于: 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
常规说明	<p>The clone number has been updated from S69-46 to N69/46, 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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	S69

同种型

IgG2b

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab93607于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能

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.

组织特异性

Expressed in the cerebral cortex and the cerebellum.

疾病相关

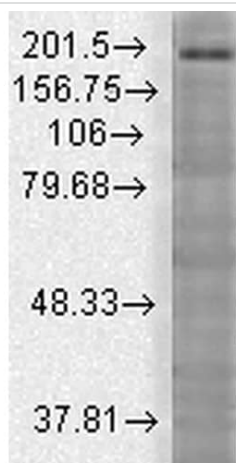
Note=A chromosomal aberration involving SHANK3 is found in patients with chromosome 22q13.3 deletion syndrome. Translocation t(12;22)(q24.1;q13.3) with APPL2/DIP13B.
Note=Defects in SHANK3 are associated with autism spectrum disorders (ASD). ASD are characterized by impairments in reciprocal social interaction 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.

序列相似性

Contains 6 ANK repeats.
Contains 1 PDZ (DHR) domain.
Contains 1 SAM (sterile alpha motif) domain.
Contains 1 SH3 domain.

细胞定位

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



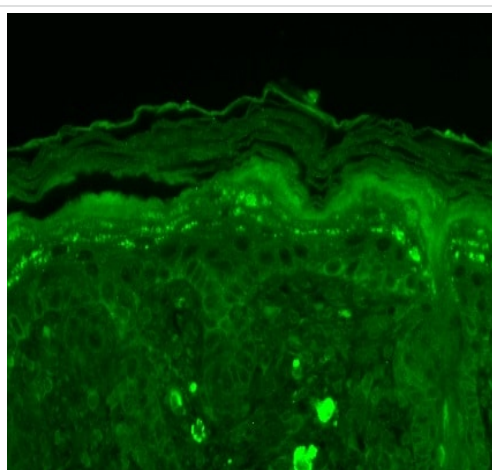
Western blot - Anti-SHANK3 antibody [S69]
(ab93607)

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

Secondary

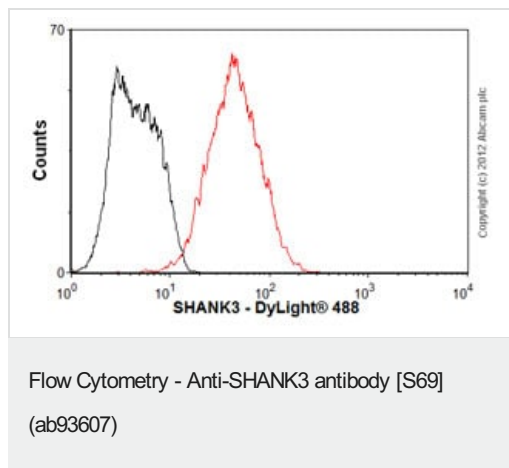
Sheep Anti-Mouse IgG-HRP

Predicted band size: 186 kDa



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

Immunohistochemical analysis of mouse backskin tissue sections labelling 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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