

Anti-SHANK2 antibody [N23B/49] ab94575

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製品の概要

製品名	Anti-SHANK2 antibody [N23B/49]
製品の詳細	Mouse monoclonal [N23B/49] to SHANK2
由来種	Mouse
特異性	Recognizes SHANK1, SHANK2, SHANK3.
アプリケーション	適用あり: WB, ICC/IF
種交差性	交差種: Rat, Human
免疫原	Fusion protein corresponding to Rat SHANK2 aa 50-350. Database link: Q9QX74
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 S23B-49 to N23B/49, 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, PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	N23B/49
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ab94575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
WB		
ICC/IF		

追加情報

ICC: Use at a concentration of 0.1 - 1 µg/ml.
ICC/IF: Use at a concentration of 1 - 10 µg/ml.
IHC-P: Use at a concentration of 0.1 - 1 µg/ml.
IHC-Fr: Use at a concentration of 0.1 - 1 µg/ml.
WB: Use at a concentration of 1 - 10 µg/ml. Predicted molecular weight: 159 kDa.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

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, 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 epithelial cells (at protein level). All isoforms except isoform 7 are expressed predominantly in brain, with highest levels in olfactory bulb, cerebral cortex, cerebellum, central gray matter and hippocampus. Moderate levels of expression are seen in the caudate putamen, thalamic nuclei and brain stem. In cerebellum primarily expressed in Purkinje cells. Isoform 7 is not expressed in brain but expressed in liver, cholangiocytes and thymus. Isoform 7 is present in pancreas, colonic mucosa and thymocytes (at protein level).

配列類似性

Belongs to the SHANK family.
Contains 1 PDZ (DHR) domain.
Contains 1 SAM (sterile alpha motif) domain.
Contains 1 SH3 domain.

発生段階

Expressed during early postnatal brain development, especially in the caudate putamen and thalamic nuclei. Expression in the cerebral cortex, the hippocampus and the cerebellum is moderate to high at P5 and shows a stable expression throughout development. Isoforms 1, 2, 4 and 6 are predominantly expressed in cerebellum up to the age of approximately 3 weeks. Isoform 1 expression decreases during development of cortex but slightly increases in cerebellum.

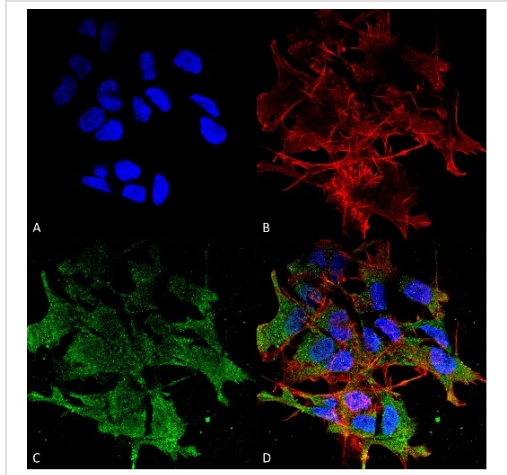
ドメイン

The PDZ domain is required for interaction with GRID2, PLCB3, SLC9A3 and CFTR.

細胞内局在

Apical cell membrane. Cytoplasm. Cell junction, synapse. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, growth cone. Cell projection, dendritic spine. Colocalizes with cortactin in growth cones in differentiating hippocampal neurons. Present in the dendritic spines of cerebellar Purkinje cells (By similarity). Colocalizes with cortactin in growth cones in differentiating hippocampal neurons. Colocalized with PDE4D to the apical membrane

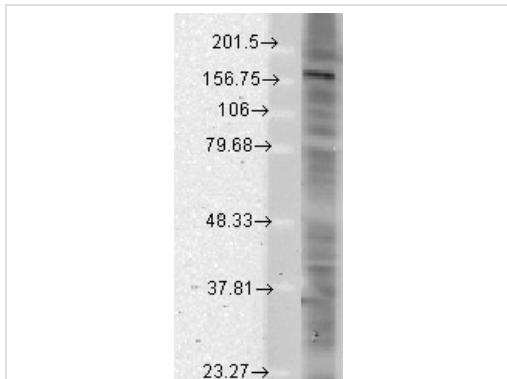
画像



Immunocytochemistry/ Immunofluorescence - Anti-SHANK2 antibody [N23B/49] (ab94575)

4% formaldehyde-fixed (for 15 minutes at room temperature) SK-N-BE (Human neuroblastoma cells) labeling SHANK2 using ab94575 at 1/100 dilution (for 60 minutes at room temperature). Goat Anti-Mouse ATTO 488 was used as the secondary at 1/200 dilution for 60 minutes at room temperature. Localization in the cytoplasm is observed.

Counterstains: Phalloidin Texas Red F-Actin stain (Red). DAPI nuclear stain (Blue).



Western blot - Anti-SHANK2 antibody [N23B/49] (ab94575)

Western blot detection of SHANK2 in Rat brain membrane lysates using ab94575 at 1:1000 dilution.

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