

Anti-Ankyrin-B antibody [N105/13] ab131419

1 References **3 图像**

概述

产品名称	Anti-Ankyrin-B抗体[N105/13]
描述	小鼠单克隆抗体[N105/13] to Ankyrin-B
宿主	Mouse
特异性	No cross-reactivity against Ankyrin-G
经测试应用	适用于: Flow Cyt, WB, ICC/IF
种属反应性	与反应: Rat, Human
免疫原	Synthetic peptide corresponding to Human Ankyrin brain aa 200-500. Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	WB: Rat brain lysate. Flow Cyt: SH-SY5Y cells. ICC/IF: SK-N-BE cells.
常规说明	<p>The clone number has been updated from S105-13 to N105/13, 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. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol
纯度	Protein G purified
克隆	单克隆
克隆编号	N105/13
同种型	IgG1

应用

The Abpromise guarantee

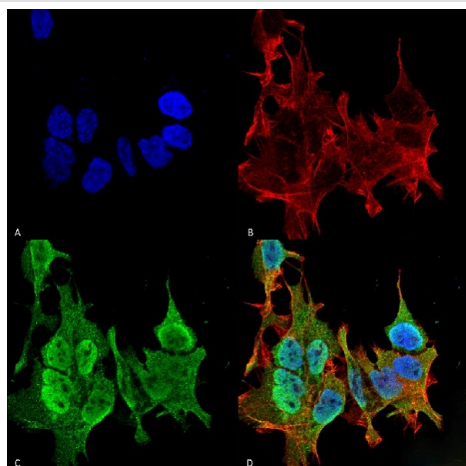
Abpromise™ 承诺保证使用 ab131419 于以下的经测试应用

“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。

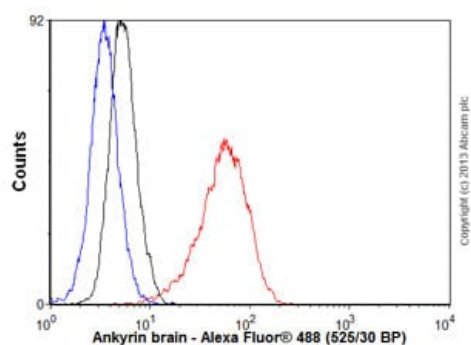
应用	Ab 评论	说明
Flow Cyt		Use 0.1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 200 kDa (predicted molecular weight: 430 kDa). 1 µg/mL of ab131419 was sufficient for detection of Ankyrin brain in 20 µg of Rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
ICC/IF		1/200.

靶标

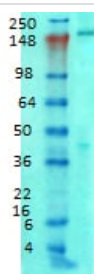
功能	Attaches integral membrane proteins to cytoskeletal elements. Also binds to cytoskeletal proteins. Required for coordinate assembly of Na/Ca exchanger, Na/K ATPase and InsP3 receptor at sarcoplasmic reticulum sites in cardiomyocytes. Required for the coordinated expression of the Na/K ATPase, Na/Ca exchanger and beta-2-spectrin (SPTBN1) in the inner segment of rod photoreceptors. Required for expression and targeting of SPTBN1 in neonatal cardiomyocytes and for the regulation of neonatal cardiomyocyte contraction rate.
组织特异性	Present in plasma membrane of neurons as well as glial cells throughout the brain. Expressed in fetal brain and in temporal cortex of adult brain. Also expressed in the inner segments of rod photoreceptors in retina.
疾病相关	Defects in ANK2 are the cause of long QT syndrome type 4 (LQT4) [MIM:600919]; also known as sick sinus syndrome with bradycardia. Long QT syndromes are heart disorders characterized by a prolonged QT interval on the ECG and polymorphic ventricular arrhythmias. They cause syncope and sudden death in response to exercise or emotional stress. LQT4 displays many atypical features compared to classical long QT syndromes, including pronounced sinus bradycardia, polyphasic T waves and atrial fibrillation. Cardiac repolarization defects may be not as severe as in classical LQT syndromes and prolonged QT interval on EKG is not a consistent feature.
序列相似性	Contains 24 ANK repeats. Contains 1 death domain. Contains 1 ZU5 domain.
翻译后修饰	Phosphorylated at multiple sites by different protein kinases and each phosphorylation event regulates the protein's structure and function.
细胞定位	Cytoplasm > cytoskeleton. Membrane. Cytoplasm > myofibril > sarcomere > M line. Apical cell membrane. Cell membrane. Expressed at the apical membrane of airway lung epithelial cells (By similarity). Localized to the plasma membrane of the inner segments of photoreceptors in retina. Colocalizes with SPTBN1 in a distinct intracellular compartment of neonatal cardiomyocytes.



Immunocytochemistry/ Immunofluorescence - Anti-Ankyrin-B antibody [N105/13] (ab131419)



Flow Cytometry - Anti-Ankyrin-B antibody [N105/13] (ab131419)



Western blot - Anti-Ankyrin-B antibody [N105/13] (ab131419)

4% formaldehyde-fixed SK-N-BE cells stained for Ankyrin brain (green) using ab131419 at 1/100 dilution in ICC/IF.

Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1/100 for 60 min at room temperature. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1/1000; 1/5000 for 60 min room temperature, 5 min room temperature.

Overlay histogram showing SH-SY5Y cells stained with ab131419 (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 followed by the antibody (ab131419, 0.1 μ g/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](#), 1 μ g/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 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Western blot detection of Ankyrin brain in Rat brain membrane tissues using ab131419 at 1:1000 dilution.

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