abcam

Product datasheet

Anti-KCNT1/SLACK antibody [N3/26] ab94578

★★★★★ 1 Abreviews 2 References 3 Images

Overview

Product name	Anti-KCNT1/SLACK antibody [N3/26]
Description	Mouse monoclonal [N3/26] to KCNT1/SLACK
Host species	Mouse
Specificity	Detects ~140kDa. Weak human detection. Does not cross-react with KCNT2/Slo2.1/Slick.
Tested applications	**Suitable for:** ICC/IF, IHC-Fr, Flow Cyt, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment within Rat KCNT1/SLACK aa 1150 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **Q9Z258** Run BLAST with Run BLAST with
Positive control	Flow Cyt: SH-SY5Y cells. WB: Rat brain lysate.
General notes	The clone number has been updated from S3-26 to N3/26, 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Clonality	Monoclonal

Clone number	N3/26
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab94578 in the following tested applications.

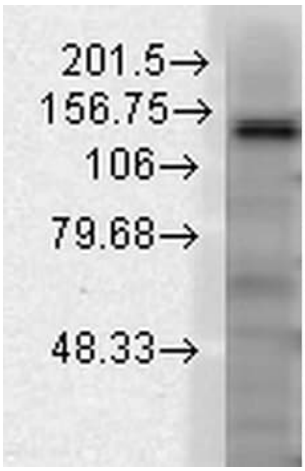
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 137 kDa.
IHC-P		1/1000.

Target

Function	Outwardly rectifying potassium channel subunit that may co-assemble with other Slo-type channel subunits. Activated by high intracellular sodium or chloride levels. Activated upon stimulation of G-protein coupled receptors, such as CHRM1 and GRIA1. May be regulated by calcium in the absence of sodium ions (in vitro).
Tissue specificity	Highest expression in liver, brain and spinal cord. Lowest expression in skeletal muscle.
Sequence similarities	Belongs to the potassium channel family. Calcium-activated (TC 1.A.1.3) subfamily. KCa4.1/KCNT1 sub-subfamily. Contains 1 RCK N-terminal domain.
Post-translational modifications	Phosphorylated by protein kinase C. Phosphorylation of the C-terminal domain increases channel activity.
Cellular localization	Cell membrane.

Images



Western blot - Anti-KCNT1/SLACK antibody [N3/26] (ab94578)

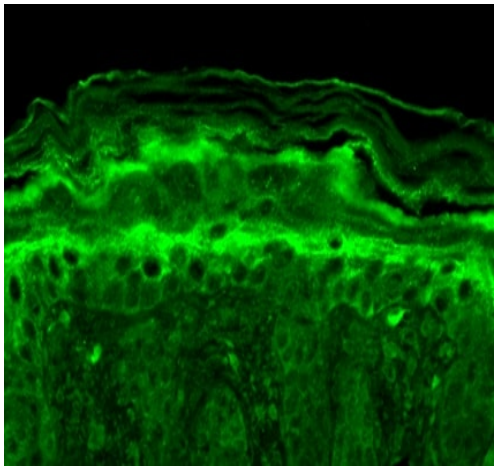
Anti-KCNT1/SLACK antibody [N3/26] (ab94578) at 1/1000 dilution + Rat brain lysate at 15 µg

Secondary

HRP-conjugated sheet anti-mouse IgG

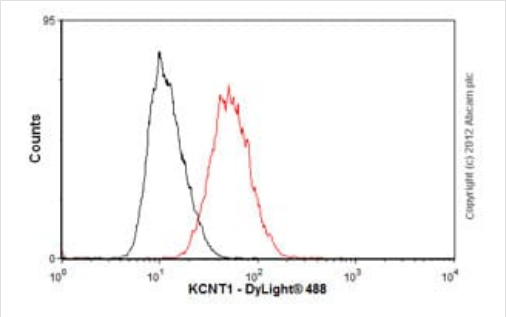
Predicted band size: 137 kDa

Membrane was blocked with 1.5% BSA for 30 minutes at room temperature. Primari antibody was incubated for 2 hours at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KCNT1/SLACK antibody [N3/26] (ab94578)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of mouse backskin staining KCNT1/SLACK with ab94578 at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Flow Cytometry - Anti-KCNT1/SLACK antibody [N3/26] (ab94578)

Overlay histogram showing SH-SY5Y cells stained with ab94578 (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 (ab94578, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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