abcam

ab94578

Anti-KCNT1/SLACK antibody [N3/26]

Anti-KCNT1/SLACK antibody [N3/26] (ab94578) is a mouse monoclonal antibody detecting KCNT1/SLACK in **Western Blot, Flow Cytometry, IHC-P, IHC-Fr, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Trusted since 2010

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Rat Kcnt1 aa 1150 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q9Z258
Clone number	N3/26
Purification technique	Affinity purification Protein G
Specificity	Detects ~140kDa. Weak human detection. Does not cross-react with KCNT2/Slo2.1/Slick.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Rat
Dilution info	1/1000
Notes	-

Expected

Species	Human, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Expected

Species	Human, Rat

Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information KCNT1

Function	Sodium-activated K(+) channel (PubMed:37494189). Acts as an important mediator of neuronal membrane excitability (PubMed:37494189). Contributes to the delayed outward currents (By similarity). Regulates neuronal bursting in sensory neurons (By similarity). Contributes to synaptic development and plasticity (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-KCNT1/SLACK antibody [N3/26] (ab94578) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of KCNT1/SLACK?
Anti-KCNT1/SLACK [N3/26] (ab94578) specifically detects a band for KCNT1/SLACK (UniProt: Q9Z258) at a molecular weight of 137kDa.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

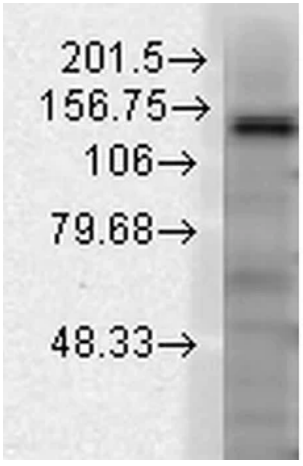
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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3 product images



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

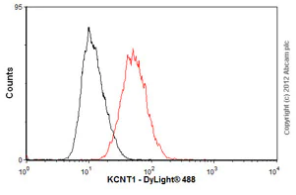
Membrane was blocked with 1.5% BSA for 30 minutes at room temperature. Primari antibody was incubated for 2 hours at room temperature.
All lanes:
Western blot - Anti-KCNT1/SLACK antibody [N3/26] (ab94578) at 1/1000 dilution

All lanes:
Rat brain lysate at 15 µg

Secondary

All lanes:
HRP-conjugated sheet anti-mouse IgG

Predicted band size: 138 kDa

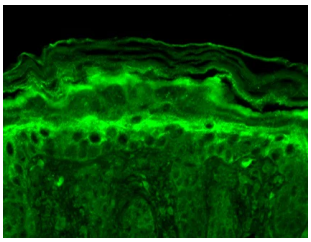


Flow Cytometry - Anti-KCNT1/SLACK antibody [N3/26] (ab94578)

KCNT1/SLACK Flow Cytometry staining using mouse Anti-KCNT1/SLACK antibody

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 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 IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was

performed.



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

KCNT1/SLACK Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-KCNT1/SLACK antibody

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.