Datasheet for ABIN7043464

anti-KCNN4 antibody (3rd Extracellular Loop, Extracellular Loop) (Biotin)

2 Images

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Overview

Quantity:	50 µg
Target:	KCNN4
Binding Specificity:	3rd Extracellular Loop, Extracellular Loop
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNN4 antibody is conjugated to Biotin
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: Synthetic mapping to the 3rd extracellular loop of human KCNN4
Isotype:	IgM
Characteristics:	Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular) Antibody (ABIN7043462 and ABIN7044556)) is a highly specific monoclonal antibody directed against an epitope of the human channel. The antibody can be used in western blot, immunocytochemistry, immunohistochemistry, and indirect flow cytometry applications. It has been designed to recognize KCNN4 from human, rat, and mouse samples. \nMouse Anti-KCNN4 (KCa3.1, SK4) (extracellular)-Biotin Antibody (ABIN7043462 and ABIN7044556)-B) is directly labeled with biotin. Strepavidin tagged with HRP or with a fluorescent probe can then be used to detect the protein. The biotin/strepavidin system is ideal for minimizing cross-reactivity when same species antibodies are

Product Details

	simultaneously used. Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular)-Biotin Antibody has been tested in direct flow cytometry and immunocytochemistry applications and is specially suited to experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified from cultured hybridoma medium.

Target Details

Target:	KCNN4
Alternative Name:	KCNN4 (KCa3.1, SK4) (KCNN4 Products)
Background:	Alternative names: KCNN4 (KCa3.1, SK4), IKCa1, IK1, Intermediate conductance Ca2+-activated K+ channel protein 4, Gardos channel
Gene ID:	3783
NCBI Accession:	NM_002250
UniProt:	O15554

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

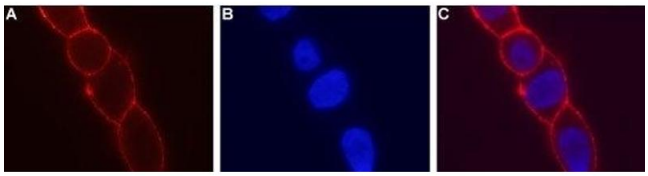
Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

Handling

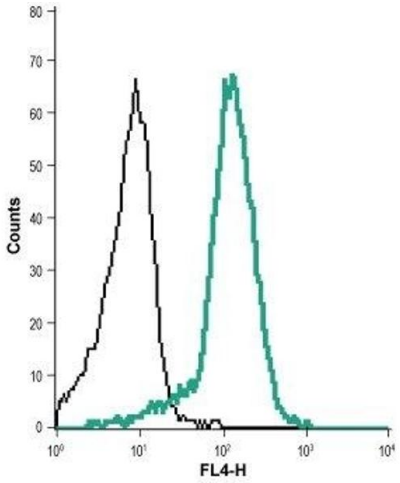
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Immunocytochemistry

Image 1. Expression of KCNN4 in live LN-CaP cells - Cell surface detection of KCNN4 in live intact human LNCaP prostate carcinoma cells. A. Cells were stained with Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular)-Biotin Antibody (ABIN7043464), (1:15), followed by Streptavidin-AlexaFluor-594 (red). B. Cell nuclei were labeled with the cell permeable dye Hoechst 33342 (blue). C. Merge of the two images.



Flow Cytometry

Image 2. Cell surface detection of KCNN4 in live intact human THP-1 acute monocytic leukemia cell line: (black line) Cells + Streptavidin-AlexaFluor-647. (green line) Cells + Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular)-Biotin Antibody (ABIN7043464), (1:10) + Streptavidin-AlexaFluor-647.