

Datasheet for ABIN7044556
anti-KCNN4 antibody (3rd Extracellular Loop, Extracellular Loop)



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6 Images

Overview

Quantity:	100 µg
Target:	KCNN4
Binding Specificity:	3rd Extracellular Loop, Extracellular Loop
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNN4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunoprecipitation (IP), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: Synthetic mapping to the 3rd extracellular loop of human KCNN4
Clone:	6C1
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.
Purification:	Affinity purified from cultured hybridoma medium.

Target Details

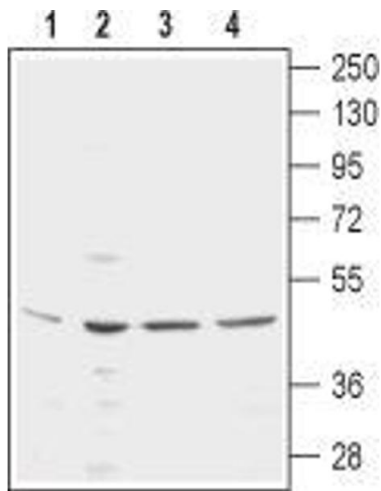
Target:	KCNN4
Alternative Name:	KCNN4 (KCa3.1, SK4) (KCNN4 Products)
Background:	Alternative names: KCNN4 (KCa3.1, SK4), IKCa1, IK1, Intermediate conductance Ca ²⁺ -activated K ⁺ channel protein 4, Gardos channel
Gene ID:	3783
NCBI Accession:	NM_002250
UniProt:	O15554

Application Details

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

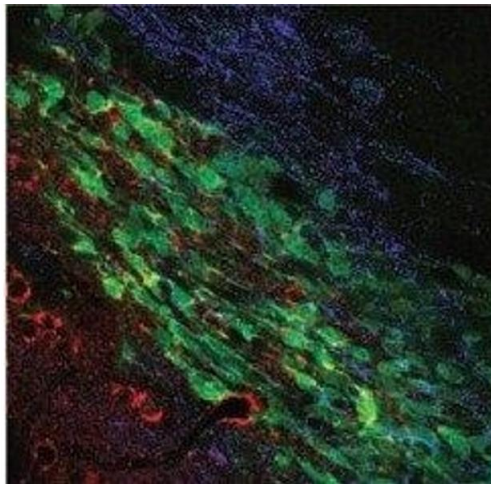
Handling

Format:	Lyophilized
Reconstitution:	25 µL or 100 µL double distilled water (DDW), depending on the sample size.
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. 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).



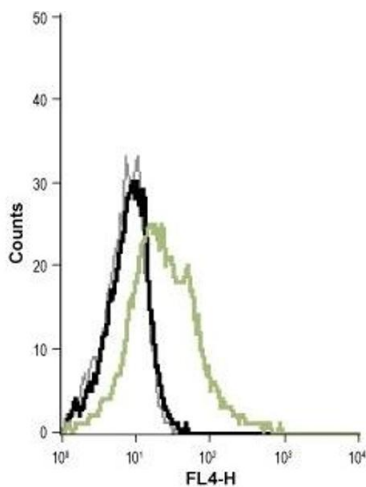
Western Blotting

Image 1. Western blot analysis using Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular) Antibody (ABIN7043462 and ABIN7044556), (1:250): - 1. Mouse MS1 endothelial cells.2. Rat IEC-6 intestinal epithelial cells.3. Human LN-CaP prostate carcinoma cells.4. Human THP-1 acute monocytic leukemia cells.



Immunohistochemistry

Image 2. Multiplex staining of KCa3.1 (SK4) and TRPC1 in mouse brain - Immunohistochemical staining of mouse brain sections using Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular) Antibody (ABIN7043462 and ABIN7044556) and Anti-TRPC1 Antibody (ABIN7043815, ABIN7043963 and ABIN7043964). TRPC1 staining (blue) is detected in neuroblasts and outside neuroblasts as well (in astrocytes). KCa3.1 (red) is detected in neuroblasts. Merged image demonstrates the partial co-localization between the two. Adapted from Turner, K.L. et al. (2014) Cereb. Cortex. 24, 2388. with permission of Oxford University Press.



Flow Cytometry

Image 3. Cell surface detection of KCa3.1 (SK4) in live intact Raji (human Burkitt's lymphoma B cells) cell line: (black line) Cells + goat-anti-mouse-Cy5. (red line) Cells + mouse IgM isotype control + goat-anti-mouse-Cy5. (green line) Cells + Mouse Anti-KCNN4 (KCa3.1, SK4) (extracellular) Antibody (ABIN7043462 and ABIN7044556), (1:20) + goat-anti-mouse-Cy5.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7044556.