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Datasheet for ABIN1027708 anti-KCC2 antibody (AA 932-1043)

4 Images



Overview

Quantity:	100 µg
Target:	KCC2 (SLC12A5)
Binding Specificity:	AA 932-1043
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCC2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 932-1043 corresponding to rat KCC2
Clone:	S1-12
Isotype:	lgG2a
Specificity:	Detects ~140 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified
Target Details	
Target:	KCC2 (SLC12A5)

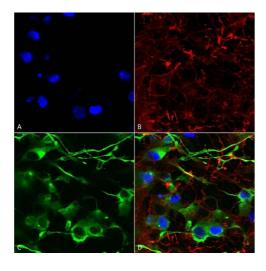
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Target Details	
Alternative Name:	KCC2 (SLC12A5 Products)
Background:	KCC2 is a member of the cation-chloride cotransporter gene family (1). It acts as a K-Cl cotransporter. KCCs normally lower intracellular chloride concentrations below the electrochemical equilibrium potential and depending on the chemical concentration gradients of potassium and chloride, KCC2 can operate as a net efflux or influx pathway. It is proposed to act as the main chloride extruder to promote fast hyperpolarizing postsynaptic inhibition in the brain (2, 3). KCC2 is expressed at high levels in neurons throughout the nervous system and immunofluorescence shows that the protein is localized at inhibitory synapses of the spinal cord (4). Studies in mice have shown that KCC2 reduces GABA's inhibitory signaling, resulting in motor defects, epilepsy, and anxiety-like behavior.
Gene ID:	171373
NCBI Accession:	NP_599190
UniProt:	Q63633
Application Details	
Application Notes:	 WB (1:1000) IHC (1:300) ICC/IF (1:100) optimal dilutions for assays should be determined by the user.
Comment:	1 μ g/ml of ABIN1027708 was sufficient for detection of KCC2 in 10 μ g of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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:	-20 °C

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-20°C

Images

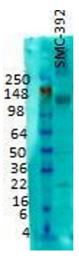


Immunocytochemistry

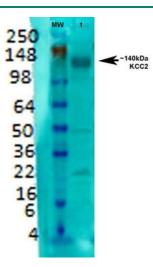
Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-KCC2 Monoclonal Antibody, Clone S1-12 (ABIN1027708). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-KCC2 Monoclonal Antibody (ABIN1027708) at 1:200 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) KCC2 Antibody (D) Composite.

Western Blotting

Image 2. western rat membrane 1 in 1000 KCC2.



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Western Blotting

Image 3. Western Blot analysis of Rat brain membrane Iysate showing detection of KCC2 protein using Mouse Anti-KCC2 Monoclonal Antibody, Clone S1-12 (ABIN1027708). Primary Antibody: Mouse Anti-KCC2 Monoclonal Antibody (ABIN1027708) at 1:1000.

Please check the product details page for more images. Overall 4 images are available for ABIN1027708.