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# Datasheet for ABIN7043514 anti-KCNA1 antibody (1st Extracellular Loop)





Overview

Quantity:	25 µL
Target:	KCNA1
Binding Specificity:	1st Extracellular Loop, AA 193-206
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI), Flow Cytometry (FACS)

## Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KDDKDFTGTIHRID, corresponding to amino acid residues 193-206 of rat KV1.1
lsotype:	lgG
Characteristics:	Anti-KV1.1 (KCNA1) (extracellular) Antibody (ABIN7043514, ABIN7045058 and ABIN7045059)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, indirect flow cytometry and live cell imaging applications. It has been designed to recognize KV1.1 from human, rat and mouse samples.
Purification:	Affinity purified on immobilized antigen.

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### Target Details

Target:	KCNA1
Alternative Name:	KV1.1 (KCNA1) (KCNA1 Products)
Background:	Alternative names: KV1.1 (KCNA1), Potassium voltage-gated channel subfamily A member 1
Gene ID:	24520
NCBI Accession:	NM_000217
UniProt:	P10499

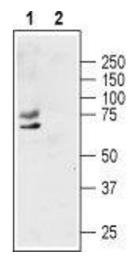
## Application Details

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

# Handling

Format:	Lyophilized
Reconstitution:	25 $\mu\text{L},$ 50 $\mu\text{L}$ or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 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).

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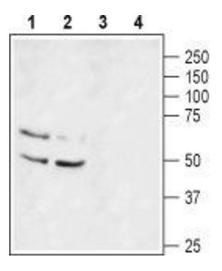
#### **Western Blotting**

**Image 1.** Western blot analysis of human MCF-7 breast adenocarcinoma cell lysate: - 1. Anti-KV1.1 (KCNA1) (extracellular) Antibody (ABIN7043514, ABIN7045058 and ABIN7045059), (1:200).2. Anti-KV1.1 (KCNA1) (extracellular) Antibody, preincubated with Kv1.1/KCNA1 (extracellular) Blocking Peptide (#BLP-PC161).

#### Immunocytochemistry

Image 2. Expression of KV1.1 in rat PC12 cells - Cell surface KV1.1 detection of in live PC12 intact rat pheochromocytoma cells. A. Extracellular staining of cells with Anti-KV1.1 (KCNA1) (extracellular) Antibody (ABIN7043514, ABIN7045058 and ABIN7045059), (1:50), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Live view of the cells. C. Merge of A and B.





### Western Blotting

**Image 3.** Western blot analysis of rat brain lysate (lanes 1 and 3) and mouse brain lysate (lanes 2 and 4): - 1,2. Anti-KV1.1 (KCNA1) (extracellular) Antibody (ABIN7043514, ABIN7045058 and ABIN7045059), (1:200).3,4. Anti-KV1.1 (KCNA1) (extracellular) Antibody, preincubated with Kv1.1/KCNA1 (extracellular) Blocking Peptide (#BLP-PC161).

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