

Datasheet for ABIN7043526

**anti-Kv1.4 antibody (1st Extracellular Loop)**

## 4 Images

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## Overview

Quantity:	25 µL
Target:	Kv1.4 (KCNA4)
Binding Specificity:	1st Extracellular Loop, AA 348-362
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kv1.4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

## Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)GHSRLLNDTSAPHLE, corresponding to amino acid residues 348 - 362 of rat KV1.4
Isotype:	IgG
Characteristics:	Anti-Kv1.4 (extracellular) Antibody is directed against an epitope of rat KV1.4. Anti-KV1.4 (extracellular) Antibody (ABIN7043526, ABIN7045066 and ABIN7045067)) can be used in western blot, immunohistochemistry and live cell imaging applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting the channel in living cells. It has been designed to recognize KV1.4 from human, rat and mouse samples.
Purification:	Affinity purified on immobilized antigen.

## Target Details

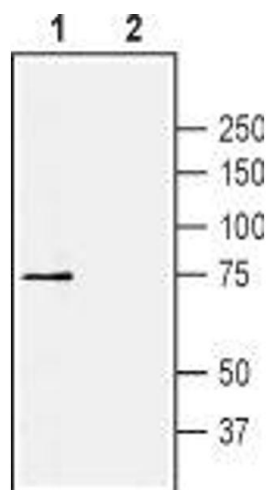
Target:	Kv1.4 (KCNA4)
Alternative Name:	KV1.4 ( <a href="#">KCNA4 Products</a> )
Background:	Alternative names: Kv1.4, Potassium voltage-gated channel subfamily A member 4, KCNA4
Gene ID:	25469
NCBI Accession:	<a href="#">NM_002233</a>
UniProt:	<a href="#">P15385</a>

## Application Details

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

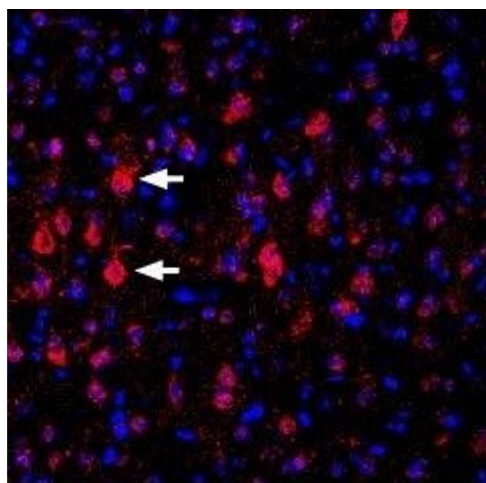
## Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL 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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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).</p>



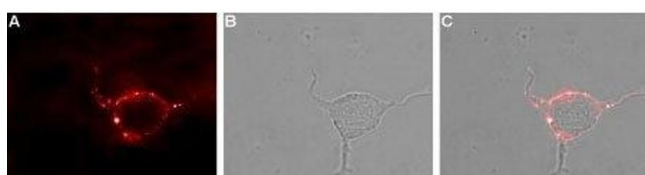
### Western Blotting

**Image 1.** Western blot analysis of mouse brain lysate: - 1. Anti-KV1.4 (extracellular) Antibody (ABIN7043526, ABIN7045066 and ABIN7045067), (1:200). 2. Anti-KV1.4 (extracellular) Antibody, preincubated with Kv1.4 (extracellular) Blocking Peptide (#BLP-PC167).



### Immunohistochemistry

**Image 2.** Expression of KV1.4 in rat parietal cortex - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-KV1.4 (extracellular) Antibody (ABIN7043526, ABIN7045066 and ABIN7045067), (1:400), followed by donkey-anti-rabbit-biotin and streptavidin-Cy3. KV1.4 staining (red) appears in several neuronal-outlined cells (arrows). Nuclei were stained with DAPI (blue).



### Immunocytochemistry

**Image 3.** Expression of KV1.4 in live intact rat PC12 cells - Cell surface detection of KV1.4 in live intact rat PC12 pheochromocytoma cells. A. Extracellular staining of cells with Anti-KV1.4 (extracellular) Antibody (ABIN7043526, ABIN7045066 and ABIN7045067), (1:25), followed by goat anti-rabbit-AlexaFluor-555 secondary antibody (red). B. Live view of the cells. C. Merge of A and B.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043526.