

## Anti-Kv4.3 K<sup>+</sup> Channel [K75/41] Standard Size Ab02117-1.1

Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** K75/41

**Alternative Name(s) of Target:** K75/41R; Potassium voltage-gated channel subfamily D member 3; Kcnd3

**UniProt Accession Number of Target Protein:** Q62897

**Published Application(s):** IB, IHC

**Published Species Reactivity:** Rat, Xenopus, Human, Mouse

**Immunogen:** This antibody was raised by immunising BALB/c mice with a fusion protein consisting of the cytoplasmic C-terminus (amino acids 415-636) of rat Kv4.3.

**Specificity:** This antibody is specific for Kv4.3. It does not cross-react with Kv4.2.

**Application Notes:** The specificity of this antibody has been confirmed in immunohistochemical analysis; while this antibody stains adult rat hippocampus sections (Andrews et al, 2019; PMID:30667360), brain sections from Kv4.3<sup>-/-</sup> mice remain blank (Burkhalter et al, 2006). This antibody has been used in immunoblot analysis of rat, mouse and frog brain membranes (Andrews et al, 2019; PMID:30667360). Additionally, this antibody has been used to assess Kv4.3 expression in mouse primary visual and primary somatosensory cortex through immunofluorescence imaging (Burkhalter et al, 2006).

**Antibody First Published in:** Burkhalter et al. Differential Expression of IA Channel Subunits Kv4.2 and Kv4.3 in Mouse Visual Cortical Neurons and Synapses Journal of Neuroscience 22 November 2006, 26 (47) 12274-12282 [PMID:17122053](#)

**Note on publication:** Describes the original use of this antibody.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.