Kv1.3 (26B-R4-D9) rabbit mAb

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#2556

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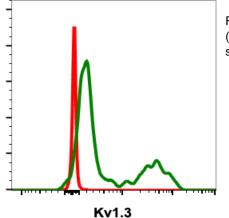
Applications	Detection	Clonality	Isotype
Flow Cytometry	y Anti-Rabbit IgG	Monoclonal	Rabbit IgGk
Format:	Unconjugated		
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.		
Formulation:	1X PBS, 0.1% BSA and 0.025% azide		
Preparation:	Protein A+G		
Reactivity:	Human		
Recommended Usage:	For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.		
Immunogen:	Synthetic peptide		
Description: Voltage-gated potassium channels (Ky permeable for potassium ions and are a of these membrane embedded protei membrane down their electrochemical g with six transmembrane segments (1), lymphocytes (2). KV1.3 are expressed platelets, osteoclasts, microglia, oligod cerebral cortex), lung islets, thymus, spl inner mitochondrial membrane (mito Ky the first K+ channel to be identified out responsible for controlling the membrane cells.		tivated upon a change of cell mer s facilitate transportation of po adients. Kv1.3 is a classical Shak was first discovered in one of to n human T and B lymphocytes, ndrocytes, brain (e.g., olfactory en, lymph nodes, and testis (3). 3) of normal T lymphocytes and de electrically excitable tissues.	nbrane voltage. Activation tassium ions across cell er-type potassium channel he non-excitable cells, T macrophages, fibroblasts, bulb, hippocampus, and It is also expressed in the cancer cells (4). Kv1.3 is Kv1.3 in T lymphocytes is
	Kv1.3 plays an important role in cell proliferation and apoptosis. The channel activity is inhibited by many chemically unrelated compounds: heavy-metal cations, small-molecule organic compounds and venom-isolated oligopertides (3, 5). The most potent specific inhibitors inhibit the channel at sub		

venom-isolated oligopeptides (3, 5). The most potent specific inhibitors inhibit the channel at sub nanomolar concentrations (7). Inhibition of Kv1.3 channel by specific inhibitors may be beneficial in therapy of T-lymphocyte-mediated autoimmune diseases (e.g., sclerosis multiplex, type I diabetes mellitus, rheumatoid arthritis, psoriasis), chronic renal failure, asthma, obesity, type II diabetes mellitus, cognitive disabilities, and some cancer disorders (7).



References:

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Flow cytometric analysis of HEK293 cells transfected with Kv1.3 (green) or untransfected (red) using Kv1-3-26B-R4-D9 antibody at 1 ug/mL (Cat. #2556). This antibody shows specific binding only to cells transfected with Kv1.3.



