

Anti-Kv4.2 K⁺ Channel Antibody

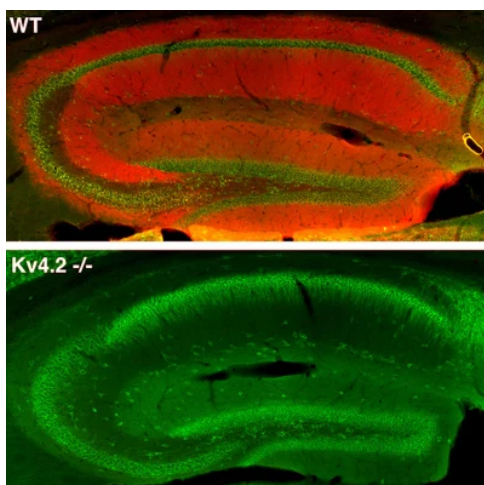


Product Details

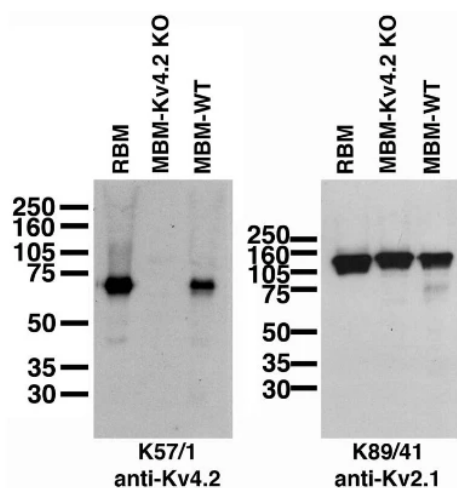
Available Variants	100 µL (SKU:75-016)
Conjugate	Unconjugated
Isotype	IgG1
Clone	K57/1
Gene Name	KCND2 KIAA1044
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.4
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, EM, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:1000 IHC: 1:250 ICC: 1:250
Species Reactivity	C. elegans, Human, Mouse, Rat
Immunogen	Synthetic peptide amino acids 209 –225 (extracellular S1-S2 loop) of human Kv4.2 (CGSSPGHIKELPSGERY; accession number Q63881)
Specificity	No cross reactivity against rat Kv4.3
Molecular Weight	75-80 kDa

Quality Control	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_2131945
UniProt ID	Q9NZV8
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

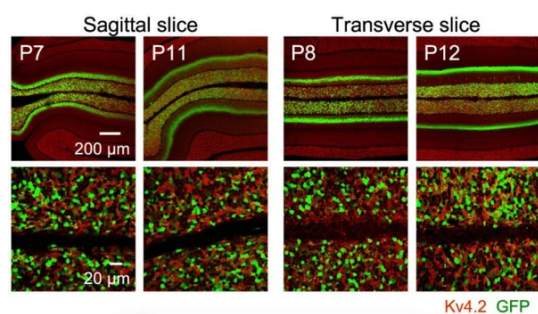
Product Images



Immunofluorescence staining of adult wild-type (WT) and Kv4.2 knockout (Kv4.2^{-/-}) mouse hippocampus with K57/1 (red) and Kv2.1 rabbit (green).



Immunoblot against crude brain membranes from adult rat (RBM) and wild-type (MBM-WT) and Kv4.2 knockout (MBM-Kv4.2-KO) mice probed with K57/1 (left) or K89/41 (right) TC supe.



Confocal images of mouse cerebellar sagittal (left) or transverse (right) slices stained with a Kv4.2 antibody (Cat. 75-016; red). AAV-GABR α 6-GFP (green) was injected on the indicated postnatal days. Image from publication CC-BY-4.0. [PMID:37095324](https://pubmed.ncbi.nlm.nih.gov/37095324/)

Product Page URL: www.antibodiesinc.com/products/anti-kv4-2-k-channel-antibody-k57-1-75-016



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