

KCNQ3 Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	GST fusion protein encoding the first 71 amino acids of rat KCNQ3.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.02% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2131708

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	0.5 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

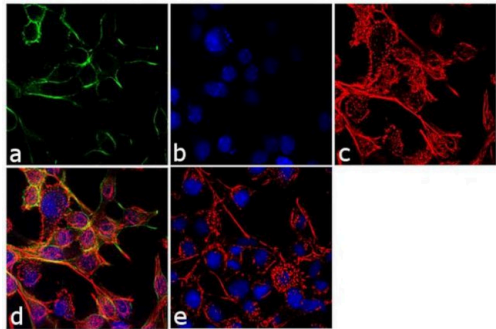
Product Specific Information

PA1-930 detects KCNQ3 from mouse, human and rat samples. This antibody is specific for KCNQ3 and does not detect KCNQ1, KCNQ2, KCNQ4 or KCNQ5.

PA1-930 has been successfully used in immunofluorescence, immunohistochemistry and immunocytochemistry procedures. Immunohistochemical staining using PA1-930 yielded a strong signal mainly in interneurons and astrocytes in the dentate region of rat hippocampal samples.

PA1-930 immunogen is a GST fusion protein encoding the first 71 amino acids of rat KCNQ3.

Product Images For KCNQ3 Polyclonal Antibody



KCNQ3 Antibody (PA1-930) in ICC/IF
Immunofluorescence analysis of KCNQ3 was performed using 70% confluent log phase RSC-96 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with KCNQ3 Rabbit Polyclonal Antibody (Product # PA1-930) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

3 References

Western Blot (1)

<p>Epilepsia open</p> <p>A novel homozygous KCNQ3 loss-of-function variant causes non-syndromic intellectual disability and neonatal-onset pharmacodependent epilepsy.</p> <p>"PA1-930 was used in Western Blotting to indicate that a homozygous KCNQ3 loss-of-function variant is responsible for a severe phenotype characterized by neonatal-onset pharmacodependent seizures, with developmental delay and intellectual disability."</p> <p>Authors: Lauritano A,Moutton S,Longobardi E,Tran Mau-Them F,Laudati G,Nappi P,Soldovieri MV,Ambrosino P,Cataldi M,Jouan T,Lehalle D,Maurey H,Philippe C,Miceli F,Vitobello A,Taglialatela M</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:1000</p>
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Immunocytochemistry (1)

<p>The EMBO journal</p> <p>Loss of the m-AAA protease subunit AFGL causes mitochondrial transport defects and tau hyperphosphorylation.</p> <p>"Published figure using KCNQ3 polyclonal antibody (Product # PA1-930) in Immunocytochemistry"</p> <p>Authors: Kondadi AK,Wang S,Montagner S,Kladt N,Kowitz A,Martinelli P,Herholz D,Baker MJ,Schauss AC,Langer T, Rugarli E</p>	<p>Year 2014</p>
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Miscellaneous PubMed (1)

<p>British journal of pharmacology</p> <p>Antibodies and a cysteine-modifying reagent show correspondence of M current in neurons to KCNQ2 and KCNQ3 K+ channels.</p> <p>"PA1-930 was used in immunocytochemistry and immunohistochemistry to investigate the influence of KCNQ2 and KCNQ3 potassium channels on the M current of neurons"</p> <p>Authors: Roche JP,Westenbroek R,Sorom AJ,Hille B,Mackie K,Shapiro MS</p>	<p>Year 2002</p>
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