

KCNQ2 Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	GST fusion protein encoding the first 70 amino acids of human KCNQ2.
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_2131689

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	0.5 µg/mL	-
Immunocytochemistry (ICC/IF)	0.5 µg/mL	2 Publications

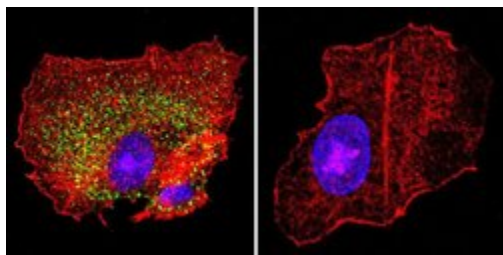
Product Specific Information

PA1-929 detects KCNQ2 from mouse, human and rat samples. This antibody is specific for KCNQ2 and does not detect KCNQ1, KCNQ3, KCNQ4 or KCNQ5.

PA1-929 has been successfully used in Western blot, immunofluorescence, immunohistochemistry and immunocytochemistry procedures. Immunohistochemical staining of rat hippocampal using PA1-929 yielded a strong signal in granule cell layer and the mossy fibers found in the central hilus of the dentate gyrus.

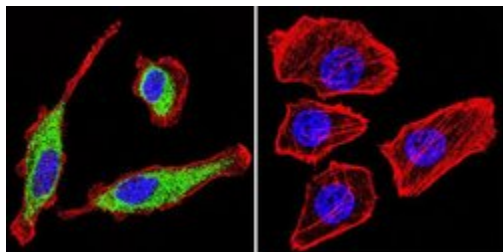
PA1-929 immunogen is a GST fusion protein encoding the first 70 amino acids of human KCNQ2.

Product Images For KCNQ2 Polyclonal Antibody



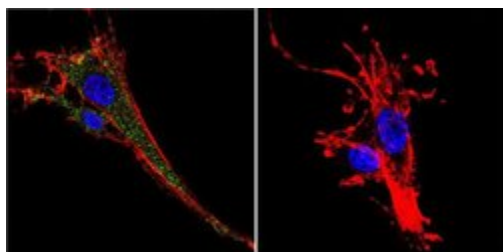
KCNQ2 Antibody (PA1-929) in ICC/IF

Immunofluorescent analysis of KCNQ2 using Anti-KCNQ2 Polyclonal Antibody (Product # PA1-929) shows staining in HepG2 Cells. KCNQ2 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing KCNQ2 (Product # PA1-929) at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552, Goat Anti-Rabbit). Images were taken at 60X magnification.



KCNQ2 Antibody (PA1-929) in ICC/IF

Immunofluorescent analysis of KCNQ2 using Anti-KCNQ2 Polyclonal Antibody (Product # PA1-929) shows staining in U251 Cells. KCNQ2 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing KCNQ2 (Product # PA1-929) at a dilution of 1:20 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552, Goat Anti-Rabbit). Images were taken at 60X magnification.



KCNQ2 Antibody (PA1-929) in ICC/IF

Immunofluorescent analysis of KCNQ2 using Anti-KCNQ2 Polyclonal Antibody (Product # PA1-929) shows staining in C6 Cells. KCNQ2 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing KCNQ2 (Product # PA1-929) at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552, Goat Anti-Rabbit). Images were taken at 60X magnification.

[View more figures on thermofisher.com](https://www.thermofisher.com)

5 References

Western Blot (1)

Proceedings of the National Academy of Sciences of the United States of America

FGF14 is a regulator of KCNQ2/3 channels.

"PA1929 was used in immunocytochemistry, immunoprecipitation, and western blot to demonstrate that fibroblast growth factor 14 affects KCNQ channel function and localization"

Authors: Pablo JL,Pitt GS

Species
Human

Dilution
Not Cited

Year
2017

Immunohistochemistry (1)

PLoS biology

The M-current works in tandem with the persistent sodium current to set the speed of locomotion.

"Published figure using KCNQ2 polyclonal antibody (Product # PA1-929) in Immunohistochemistry"

Authors: Verneuil J,Brocard C,Trouplin V,Villard L,Peyronnet-Roux J,Brocard F

Species
Not Applicable

Dilution
Not Cited

Year
2020

Immunohistochemistry (Paraffin) (1)

Proceedings of the National Academy of Sciences of the United States of America

Giant ankyrin-G: a critical innovation in vertebrate evolution of fast and integrated neuronal signaling.

"PA1-929 was used in immunohistochemistry - paraffin section to study the function of the giant exon of ankyrin-G."

Authors: Jenkins PM,Kim N,Jones SL,Tseng WC,Svitkina TM,Yin HH,Bennett V

Species
Mouse

Dilution
Not Cited

Year
2015

Immunocytochemistry (2)

PLoS biology

The M-current works in tandem with the persistent sodium current to set the speed of locomotion.

"Published figure using KCNQ2 polyclonal antibody (Product # PA1-929) in Immunohistochemistry"

Authors: Verneuil J,Brocard C,Trouplin V,Villard L,Peyronnet-Roux J,Brocard F

Species
Not Applicable

Dilution
Not Cited

Year
2020

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