A26242

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Kv2.1/KCNB1 Mouse mAb

Catalog No.: A26242 1 Publications

Basic Information

Observed MW
100kDa

Calculated MW

Category
Primary Antibody

Applications
WB,IHC-P,ELISA,IF-P

Cross-Reactivity
Human,Mouse,Rat

Background

Enables several functions, including protein heterodimerization activity; transmembrane transporter binding activity; and voltage-gated potassium channel activity. Involved in several processes, including positive regulation of transport; potassium ion export across plasma membrane; and regulation of motor neuron apoptotic process. Acts upstream of or within potassium ion transport. Located in several cellular components, including dendrite membrane; neuronal cell body membrane; and perikaryon. Part of voltage-gated potassium channel complex. Human ortholog(s) of this gene implicated in developmental and epileptic encephalopathy 26 and epilepsy. Orthologous to human KCNB1 (potassium voltage-gated channel subfamily B member 1).

Recommended Dilutions

WB	1:1000 - 1:2000
IF-P	1:50 - 1:200
IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
25736

Swiss Prot

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
Shab; Kv2.1; DRK1PC; Kcr1-1

Product Information

Source
Mouse

Isotype
IgG

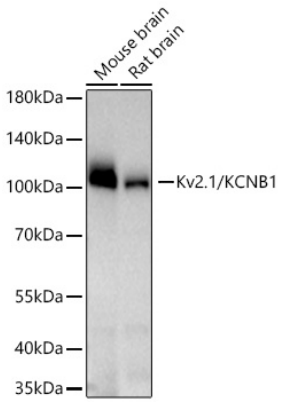
Purification
Affinity purification

Storage
Store at -20℃

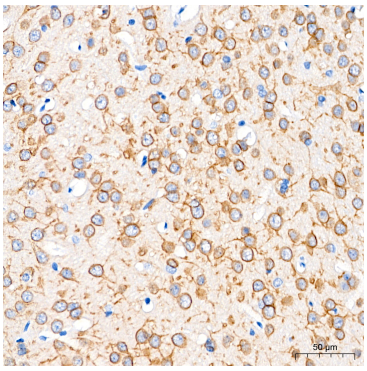
Contact

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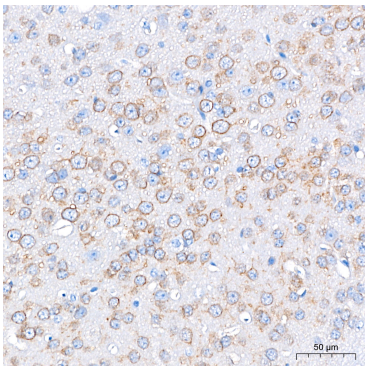
Validation Data



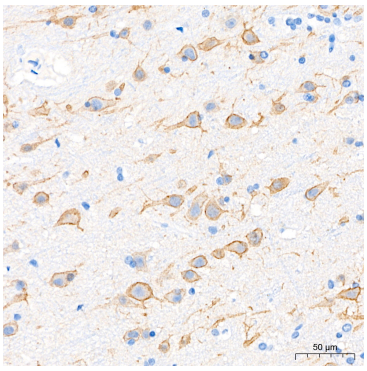
Western blot analysis of various lysates using Kv2.1/KCNB1 Mouse mAb (A26242) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



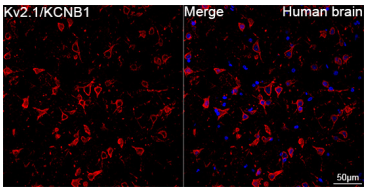
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



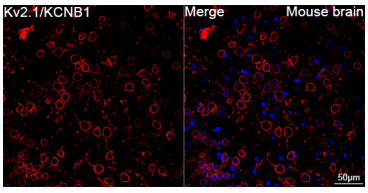
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



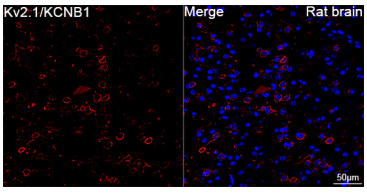
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Human brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to



Confocal imaging of paraffin-embedded Mouse brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to



Confocal imaging of paraffin-embedded Rat brain tissue using Kv2.1/KCNB1 Mouse mAb (A26242, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to

Validation Data

IF staining. Objective: 40x.

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