




Product datasheet

Anti-KCNV2 antibody ab214587

1 Image

Overview

Product name	Anti-KCNV2 antibody
Description	Rabbit polyclonal to KCNV2
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human KCNV2 aa 150-250 conjugated to keyhole limpet haemocyanin. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: Q8TDN2  Run BLAST with  Run BLAST with
Positive control	Human colon carcinoma tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
Purity	Protein A purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab214587 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Potassium channel subunit. Modulates channel activity by shifting the threshold and the half-maximal activation to more negative values.

Tissue specificity

Detected in lung, liver, kidney, pancreas, spleen, thymus, prostate, testis, ovary and colon.

Involvement in disease

Defects in KCNV2 are the cause of cone dystrophy retinal type 3B (RCD3B) [MIM:610356]; also called cone dystrophy with night blindness and supernormal rod responses KCNV2-related. RCD3B is a rare form of cone dystrophy associated with supernormal rod responses. The disorder is characterized by reduced visual acuity, photoaversion, night blindness, and abnormal color vision. At an early age, the retina shows subtle depigmentation at the macula and, later, more obvious areas of atrophy.

Sequence similarities

Belongs to the potassium channel family. V (TC 1.A.1.2) subfamily. Kv8.2/KCNV2 sub-subfamily.

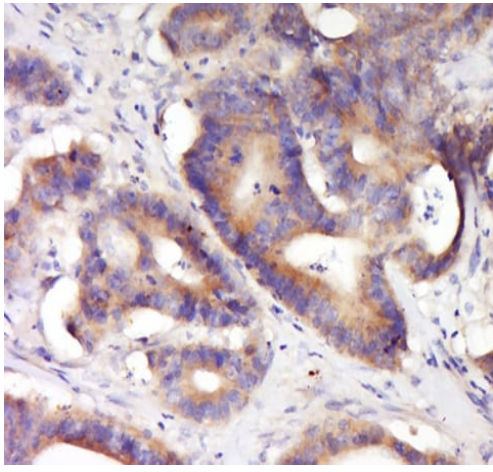
Domain

The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.

Cellular localization

Cell membrane. Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane. Remains intracellular in the absence of KCNB1.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KCNV2 antibody (ab214587)

Immunohistochemical analysis of paraformaldehyde-fixed, paraffin-embedded human colon carcinoma tissue labeling KCNV2 with ab214587 at 1/400 dilution, followed by secondary antibody detection and DAB staining.

Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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