

## **Anti-KCNAB3 Antibody**

Rabbit polyclonal antibody to KCNAB3 Catalog # AP59772

### **Specification**

## **Anti-KCNAB3 Antibody - Product Information**

Application WB, IHC Primary Accession O43448

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 43670

## **Anti-KCNAB3 Antibody - Additional Information**

# **Gene ID** 9196

#### **Other Names**

KCNA3B; Voltage-gated potassium channel subunit beta-3; K(+) channel subunit beta-3; Kv-beta-3

### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human KCNAB3. The exact sequence is proprietary.

## **Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200) IHC~~1:100~500

#### **Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

### **Anti-KCNAB3 Antibody - Protein Information**

Name KCNAB3 (HGNC:6230)

Synonyms KCNA3B

## **Function**

Regulatory subunit of the voltage-gated potassium (Kv) channels composed of pore-forming and potassium-conducting alpha subunits and of regulatory beta subunit (PubMed:<a href="http://www.uniprot.org/citations/9857044" target="\_blank">9857044</a>). The beta-3/KCNAB3 subunit may mediate closure of potassium channels (By similarity). Increases inactivation of Kv1.5/KCNA5 alpha subunit- containing channels (PubMed:<a href="http://www.uniprot.org/citations/9857044" target="\_blank">9857044</a>). May display





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nicotinamide adenine dinucleotide phosphate (NADPH)-dependent aldoketoreductase activity (By similarity). The binding of oxidized and reduced NADP(H) cofactors may be required for the regulation of potassium channel activity (By similarity).

#### **Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q14722}.

#### **Tissue Location**

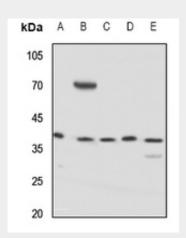
Brain specific. Most prominent expression in cerebellum. Weaker signals detected in cortex, occipital lobe, frontal lobe and temporal lobe. Not detected in spinal cord, heart, lung, liver, kidney, pancreas, placenta and skeletal muscle

## **Anti-KCNAB3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

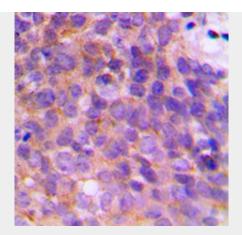
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-KCNAB3 Antibody - Images



Western blot analysis of KCNAB3 expression in HEK293T (A), Hela (B), mouse kidney (C), mouse brain (D), rat kidney (E) whole cell lysates.





Immunohistochemical analysis of KCNAB3 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

# **Anti-KCNAB3 Antibody - Background**

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