# **Product Name: DREAM Rabbit Polyclonal Antibody**

Catalog #: APRab10160



#### **Summary**

Production Name DREAM Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IF,IHC,WB,ELISA **Reactivity** Human,Mouse

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Storage

Gene Name KCNIP3

KCNIP3; CSEN; DREAM; KCHIP3; Calsenilin; A-type potassium channel modulatory Alternative Names

protein 3; DRE-antagonist modulator; DREAM; Kv channel-interacting protein 3; KChIP3

**Gene ID** 30818.0

Q9Y2W7.The antiserum was produced against synthesized peptide derived from **SwissProt ID** 

human Calsenilin/KCNIP3. AA range:29-78

### **Application**

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in

Dilution Ratio

other applications.

Molecular Weight 29kD

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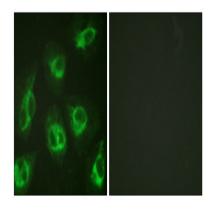


#### **Background**

This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins, which belong to the recoverin branch of the EF-hand superfamily. Members of this family are small calcium binding proteins containing EFhand-like domains. They are integral subunit components of native Kv4 channel complexes that may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. The encoded protein also functions as a calcium-regulated transcriptional repressor, and interacts with presenilins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008], function: Calcium-dependent transcriptional repressor that binds to the DRE element of genes including PDYN and FOS. Affinity for DNA is reduced upon binding to calcium and enhanced by binding to magnesium. Seems to be involved in nociception., function: May play a role in the regulation of PSEN2 proteolytic processing and apoptosis. Together with PSEN2 involved in modulation of betaamyloid formation.,function:Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Probably modulates channels density, inactivation kinetics and rate of recovery from inactivation in a calciumdependent and isoform-specific manner. In vitro, modulates KCND2/Kv4.2 and KCND3/Kv4.3 currents. Involved in KCND2 and probably KCND3 trafficking to the cell surface, PTM: Palmitoylated. Palmitoylation enhances association with the plasma membrane, PTM: Phosphorylation at Ser-63 inhibits cleavage by CASP3, PTM: Proteolytically cleaved by caspase-3.,similarity:Belongs to the recoverin family.,similarity:Contains 4 EF-hand domains.,subcellular location:Also membranebound, associated with the plasma membrane (By similarity). In the presence of PSEN2 associated with the endoplasmic reticulum and Golqi, subunit: Binds to DNA as a homomultimer. Dimerization is induced by binding to calcium. Component of heteromultimeric potassium channels. Interacts with KCND2 and KCND3 (By similarity). Interacts with the C-terminus of PSEN1 and PSEN2 and with PSEN2 CTF subunit. Associates with KCN1.,tissue specificity:Highly expressed in brain. Widely expressed at lower levels. Expression levels are elevated in brain cortex regions affected by Alzheimer disease.,

#### **Research Area**

#### **Image Data**

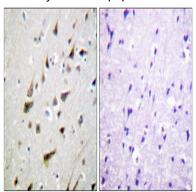


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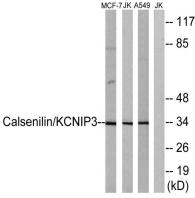
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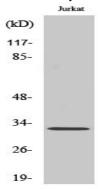
Immunofluorescence analysis of HeLa cells, using Calsenilin/KCNIP3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Calsenilin/KCNIP3 Antibody. The picture on the right is blocked with the synthesized peptide.



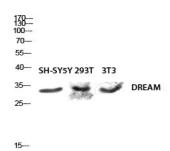
Western blot analysis of lysates from MCF-7, Jurkat, and A549 cells, using Calsenilin/KCNIP3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using DREAM Polyclonal Antibody diluted at 1: 500

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Western blot analysis of SH-SY5Y 293T 3T3 lysis using DREAM antibody. Antibody was diluted at 1:500

#### Note

For research use only.