

Datasheet for ABIN7581907 **anti-DREAM antibody (Intracellular)**



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Overview

Quantity:	50 µL
Target:	DREAM (KCNIP3)
Binding Specificity:	AA 18-31, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DREAM antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to KChIP3 (CSEN, DREAM) Subunit
Immunogen:	(C)SKREGIKWQRPR, corresponding to amino acid residues 18-31 of rat KChIP3
Sequence:	(C)SKREGIKWQR PR
Isotype:	IgG
Specificity:	Cytoplasmic, N-terminus
Predicted Reactivity:	Human,mouse - 11,12 amino acid residues identical
Characteristics:	Highly specific antibody directed against an epitope of rat Calsenilin. Anti-KChIP3 (CSEN, DREAM) Antibody (ABIN7581907) can be used for western blot analysis. It has been designed to recognize Calsenilin from human mouse and rat samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	DREAM (KCNIP3)
Alternative Name:	KCNIP3 (KCNIP3 Products)
Background:	Calsenilin, KCNIP3, KV channel-interacting protein 3, A-type potassium channel modulatory protein 3, DRE-antagonist modulator, Voltage-gated K⁺ (KV) channels form functional entities by the assembly of four α subunits and auxiliary subunits. Various auxiliary subunits are known to interact with KV channels thereby modulating various properties such as gating, activation and inactivation of the channels as well as influencing trafficking of the channels to the cell's plasma membrane¹. KChIPs (KV channel interacting proteins) are cytoplasmic proteins which belong to the neural Ca²⁺ sensor (NCS) family of Ca²⁺ binding EF-hand proteins. To date, KChIP1-4 have been identified. All four KChIPs have a conserved C-terminal domain, which has four EF-hand-like Ca²⁺ binding motifs. The N-terminal region differs among the various KChIPs and attributes different properties regarding the regulation of KV channels¹. KChIPs regulate different properties of KV channels such as their cell surface expression (mediated by proper trafficking of the various subunits), channel assembly and gating¹⁻⁴. Specifically, KChIP2, 3 and 4 strongly regulate the activity of the KV4 channel family in cortical pyramidal neurons⁵. Furthermore, KChIP knockout mice display an increase in anxiety-like behavior compared to their wild type counterparts⁶. KChIP1, 3, and 4 are mostly expressed in the brain while KChIP2 is expressed in the heart as well as in the brain⁴⁻⁶.
Gene ID:	65199
UniProt:	Q9JM47

Application Details

Application Notes:	Antigen preadsorption control: 1 μ g peptide per 1 μ g antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:200
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4

Handling

Storage: 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).