10320 Camino Santa Fe, Suite G
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Anti-CSEN Antibody
Catalog # ABO11581

Specification

Anti-CSEN Antibody - Product Information

Application	**WB**
Primary Accession	Q9Y2W7
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Calsenilin(KCNIP3) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CSEN Antibody - Additional Information

Gene ID 30818

Other Names
Calsenilin, A-type potassium channel modulatory protein 3, DRE-antagonist modulator, DREAM, Kv channel-interacting protein 3, KChIP3, KCNIP3, CSEN, DREAM, KCHIP3

Calculated MW
29231 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Cytoplasm . Cell membrane ; Lipid-anchor . Endoplasmic reticulum . Golgi apparatus. Nucleus. Also membrane-bound, associated with the plasma membrane (PubMed:15485870). In the presence of PSEN2 associated with the endoplasmic reticulum and Golgi. The sumoylated form is present only in the nucleus. .

Tissue Specificity
Highly expressed in brain. Widely expressed at lower levels. Expression levels are elevated in brain cortex regions affected by Alzheimer disease. .

Protein Name
Calsenilin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human CSEN(1-16aa

MQPAKEVTKASDGSLL).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the recoverin family.

Anti-CSEN Antibody - Protein Information

Name KCNIP3

Synonyms CSEN, DREAM, KCHIP3

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 (By similarity).

Cellular Location
Cytoplasm. Cell membrane; Lipid-anchor. Endoplasmic reticulum. Golgi apparatus. Nucleus. Note=Also membrane-bound, associated with the plasma membrane (PubMed:15485870). In the presence of PSEN2 associated with the endoplasmic reticulum and Golgi. The sumoylated form is present only in the nucleus.

Tissue Location
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Anti-CSEN 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-CSEN Antibody - Images

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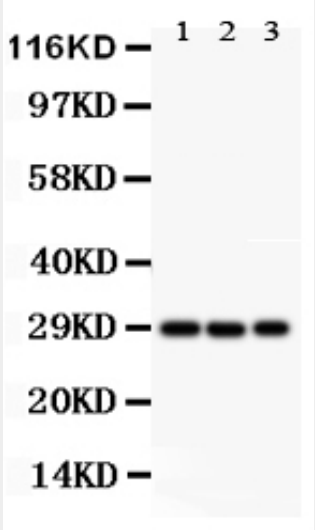

Anti- CSEN antibody, ABO11581, Western blottingAll lanes: Anti CSEN (ABO11581) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: U87 Whole Cell Lysate at 40ugLane 3: SHG Whole Cell Lysate at 40ugPredicted bind size: 29KDObserved bind size: 29KD

Anti-CSEN Antibody - Background

KCNIP3, also known as Calsenilin, is a calcium-dependent transcriptional repressor that is highly expressed in central nervous system, thyroid gland, testis, thymus, and immune cells. This gene encodes a member of the family of voltage-gated potassium(Kv) channel-interacting proteins, which belong to the neuronal calcium sensor family of proteins. KCNIP3 is mapped to 2q11.1. The encoded protein functions as a calcium-regulated transcriptional repressor, and interacts with presenilins. KCNIP3-regulated genes have a critical function in Ig subclass production and proliferation in B lymphocytes. KCNIP3 has been shown to interact with PSEN1 and PSEN2.