

Rabbit anti-Human, Mouse Calsenilin/KCNIP3 Polyclonal Antibody | anti-KCNIP3 antibody

Calsenilin/KCNIP3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321979	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Calsenilin/KCNIP3; Polyclonal Antibody; Calsenilin/KCNIP3 Antibody; 4933407H12Rik; A type potassium channel modulatory protein 3; A-type potassium channel modulatory protein 3; AI413860; Calsenilin; CSEN; CSEN_HUMAN; DRE antagonist modulator; DRE-antagonist modulator; DREAM; EF hand transcription factor; KCHIP 3; KCHIP3; KCNIP 3; Kcnip3; Kv channel interacting protein 3; Kv channel-interacting protein 3; MGC18289; Potassium channel interacting protein 3; R74849; anti-KCNIP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Calsenilin/KCNIP3 antibody detects endogenous levels of total Calsenilin/KCNIP3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	230
Applicable Applications for anti-KCNIP3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Calsenilin/KCNIP3
Subcellular Location	Cytoplasm. Cell Membrane. 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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (88%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Calsenilin/KCNIP3 expression in A431 cells. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321979 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA321979 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IF (Immunofluorescence)

AAA321979 staining SHSY5Y cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNIP3 antibody

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).

Subunit Structure: Binds to DNA as a homomultimer. Dimerization is induced by binding to calcium (PubMed:17962406). Interacts with the C-terminus of PSEN1 and PSEN2 and with PSEN2 CTF subunit. Associates with KCN1. Component of heteromultimeric potassium channels. Identified in potassium channel complexes containing KCND1, KCND2, KCND3, KCNIP1, KCNIP2, KCNIP3, KCNIP4, DPP6 and DPP10 (By similarity). Interacts with KCND2 and KCND3.

Post-translational Modifications: Palmitoylated. Palmitoylation enhances association with the plasma membrane (By similarity). Proteolytically cleaved by caspase-3. Phosphorylation at Ser-63 inhibits cleavage by CASP3.

Similarity: Belongs to the recoverin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	78190495
NCBI GeneID	30818
NCBI Accession #	NP_001030086.1
NCBI GenBank Nucleotide #	NM_001034914.2
UniProt Accession #	Q9Y2W7; Q3YAC3; Q3YAC4; Q53TJ5; Q96T40; Q9UJ84; Q9UJ85; H7BY46
Molecular Weight	Observed: 29 kDa Predicted: 30 kDa
NCBI Official Full Name	calsenilin isoform 2
NCBI Official Synonym Full Names	potassium voltage-gated channel interacting protein 3
NCBI Official Symbol	KCNIP3
NCBI Official Synonym Symbols	CSEN; DREAM; KCHIP3
NCBI Protein Information	calsenilin
UniProt Protein Name	Calsenilin
UniProt Gene Name	KCNIP3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/calsenilin-kcnp3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321979>