

Rabbit Calsenilin/KCNIP3 Polyclonal Antibody | anti-KCNIP3 antibody

Phospho-Calsenilin/KCNIP3 (Ser63) Antibody

CATALOG # AAA31279	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

Calsenilin/KCNIP3; Polyclonal Antibody; Phospho-Calsenilin/KCNIP3 (Ser63) 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; Kcnp3; 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, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Calsenilin/KCNIP3 (Ser63) Antibody detects endogenous levels of Calsenilin/KCNIP3 only when phosphorylated at Ser63. Tissue Specificity: Highly expressed in brain. Widely expressed at lower levels. Expression levels are elevated in brain cortex regions affected by Alzheimer disease.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-KCNIP3 antibody	IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Calsenilin/KCNIP3 around the phosphorylation site of Ser63.
Conjugation	Unconjugated
Fragment	Fab fragment
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.
Subunit Structure	Binds to DNA as a homomultimer. Dimerization is induced by binding to calcium. 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.
Similarity	Belongs to the recoverin family.
Subcellular 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human prostate cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Human ovarian cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Human mammary cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse liver 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse testis 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse muscle 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNIP3 antibody	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).Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels, such as KCND2/Kv4.2 and KCND3/Kv4.3. Modulates channel expression at the cell membrane, gating characteristics, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner.May play a role in the regulation of PSEN2 proteolytic processing and apoptosis. Together with PSEN2 involved in modulation of amyloid-beta formation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	78190495
NCBI GeneID	30818
NCBI Accession #	NP_001030086.1
NCBI GenBank Nucleotide #	NM_001034914.1
UniProt Accession #	Q9Y2W7; Q3YAC3; Q3YAC4; Q53TJ5; Q96T40; Q9UJ84; Q9UJ85; H7BY46
Molecular Weight	29,231 Da
NCBI Official Full Name	calsenilin isoform 2
NCBI Official Synonym Full Names	Kv channel interacting protein 3, calsenilin
NCBI Official Symbol	KCNIP3
NCBI Official Synonym Symbols	CSEN; DREAM; KCHIP3

NCBI Protein Information	calsenilin; DRE-antagonist modulator; kv channel-interacting protein 3; potassium channel interacting protein 3; A-type potassium channel modulatory protein 3; calsenilin, presenilin-binding protein, EF hand transcription factor
UniProt Protein Name	Calsenilin
UniProt Gene Name	KCNIP3
UniProt Synonym Gene Names	CSEN; DREAM; KCHIP3; DREAM; KCHIP3
UniProt Entry Name	CSEN_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calsenilin-kcnip3-antibody-immunohistochemistry-peptide-elisa-elisa/31279>