

Rabbit anti-Human, Mouse KCND1 Polyclonal Antibody | anti-KCND1 antibody

KCND1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324972	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

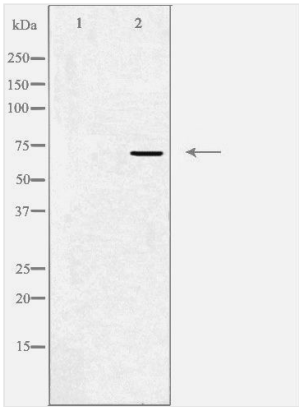
PRODUCT SYNONYMS

KCND1; Polyclonal Antibody; KCND1 Antibody; Kcnd1; KCND1_HUMAN; Kv4.1; mShal; OTTHUMP00000025805; OTTHUMP00000025806; Potassium voltage gated channel Shal related subfamily member 1; Potassium voltage gated channel subfamily D member 1; Potassium voltage-gated channel subfamily D member 1; Shal type potassium channel; Voltage gated potassium channel Kv4.1; Voltage gated potassium channel subunit Kv4.1; Voltage-gated potassium channel subunit Kv4.1; anti-KCND1 antibody

PRODUCT SPECIFICATIONS

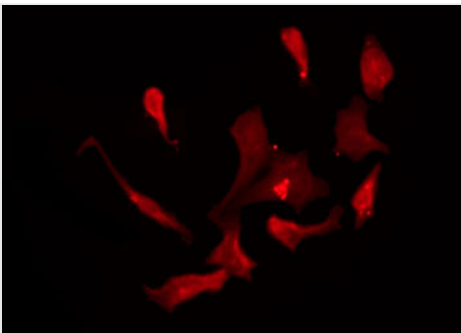
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	KCND1 antibody detects endogenous levels of total KCND1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	647
Applicable Applications for anti-KCND1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), 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 extracts from 3T3 cells, using KCND1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324972 staining NIH-3T3 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.

ADDITIONAL INFORMATION

Related Product Information for anti-KCND1 antibody

Function: Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.

Subunit Structure: Homotetramer or heterotetramer with KCND2 and/or KCND3. Associates with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4 (By similarity). Interacts with DPP10 (Probable).

Similarity: The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.1/KCND1 sub-subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27436981
NCBI GeneID	3750
NCBI Accession #	NP_004970.3
NCBI GenBank Nucleotide #	NM_004979.5
UniProt Accession #	Q9NSA2; O75671; A6NEF1; B2RCG0
Molecular Weight	Observed: 70 kD Predicted: 72 kDa
NCBI Official Full Name	potassium voltage-gated channel subfamily D member 1
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily D member 1
NCBI Official Symbol	KCND1
NCBI Official Synonym Symbols	KV4.1
NCBI Protein Information	potassium voltage-gated channel subfamily D member 1
UniProt Protein Name	Potassium voltage-gated channel subfamily D member 1
UniProt Gene Name	KCND1

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.