10320 Camino Santa Fe, Suite G
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Anti-KCHIP1 Antibody
Rabbit polyclonal antibody to KCHIP1
Catalog # AP61465

Specification

Anti-KCHIP1 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9NZI2
Other Accession	Q9JJ57
Reactivity	**Human, Mouse, Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**26817**

Anti-KCHIP1 Antibody - Additional Information

Gene ID 30820

Other Names
KCHIP1; VABP; Kv channel-interacting protein 1; KChIP1; A-type potassium channel modulatory protein 1; Potassium channel-interacting protein 1; Vesicle APC-binding protein

Target/Specificity
Recognizes endogenous levels of KCHIP1 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/50 - 1/200)
IHC~~1:100~500
IF~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/50 - 1/200)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-KCHIP1 Antibody - Protein Information

Name KCNIP1 (HGNC:15521)

Function
Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels (PubMed:10676964, PubMed:11423117, PubMed:17187064, PubMed:34552243, PubMed:<a href="http://www.uniprot.org/citations/34997220"

target="_blank">34997220). Regulates channel density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner (PubMed:10676964, PubMed:11423117, PubMed:17187064, PubMed:34552243, PubMed:34997220). In vitro, modulates KCND1/Kv4.1 and KCND2/Kv4.2 currents (PubMed:34552243). Increases the presence of KCND2 at the cell surface (PubMed:12829703).

Cellular Location
Cell membrane; Peripheral membrane protein. Cytoplasm. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8R426}

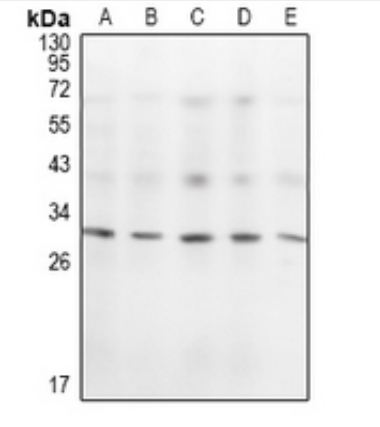
Tissue Location
Isoform 1 and isoform 2 are expressed in brain and kidney. Isoform 1 is also expressed in liver, pancreas, skeletal muscle, small intestine and testis. Isoform 2 is also expressed in lung, pancreas, leukocytes, prostate and thymus

Anti-KCHIP1 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-KCHIP1 Antibody - Images



Western blot analysis of KCHIP1 expression in CT26 (A), C6 (B), MCF7 (C), HEK293T (D), U87MG (E) whole cell lysates.

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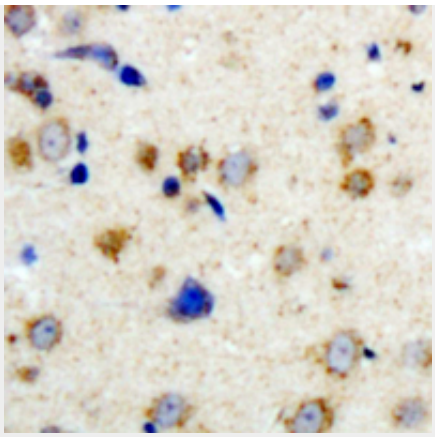
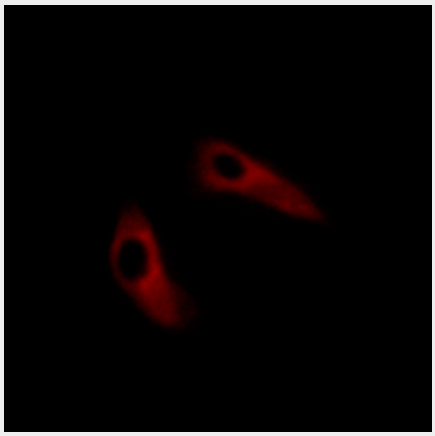


Immunohistochemical analysis of KCHIP1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of KCHIP1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-KCHIP1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human KCHIP1. The exact sequence is proprietary.