10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCTD7 Polyclonal Antibody

Catalog # AP74252

Product Information

Application	WB, E, IHC-P
Primary Accession	Q96MP8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33132

Additional Information

Gene ID	154881
Other Names	BTB/POZ domain-containing protein KCTD7
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000 E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

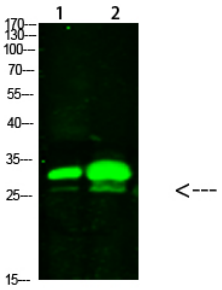
Protein Information

Name	KCTD7
Function	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that mediates the ubiquitination of multiple substrates, leading to either their proteasomal or lysosomal degradation, or modulating their activity through non-degradative ubiquitination (PubMed:36964131, PubMed:35921411). Regulates voltage- gated potassium channels, thereby modulating hyperpolarizing potassium currents in neurons and inducing potassium-dependent membrane hyperpolarization. Also regulates the neuronal glutamine transporter SLC38A2/SAT2, influencing neurotransmitter precursor availability (PubMed:27742667). Regulates calpain activity via atypical, non- degradative ubiquitination by mediating ubiquitination of CAPN1 via 'Lys6'-, 'Lys27'-, 'Lys29'-, and 'Lys63'-linked chains, and CAPN2 via 'Lys6'-linked chains, thereby preventing calpain autolysis (PubMed:36964131). Promotes lysosomal enzyme trafficking and maintains lysosomal function by acting as an endogenous regulator of CLN5, enhancing its ubiquitination and proteasomal degradation (PubMed:35921411).
Cellular Location	Cell membrane. Cytoplasm

Background

May be involved in the control of excitability of cortical neurons.

Images



Western Blot analysis of 1,mouse-brain 2,mouse-spleen cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody：Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.