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KCTD11 Rabbit pAb

Catalog # AP99349

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q693B1
Other Accession	Q693B1
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25887
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCTD11
Epitope Specificity	31-130/232
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 BTB (POZ) domain.
SUBUNIT	Homotetramer. Component of the BCR(KCTD11) E3 ubiquitin ligase complex, at least composed of CUL3 and KCTD11 and RBX1. Interacts with CUL3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The KCTD11 gene encodes a protein that has been identified as a suppressor of Hedgehog signaling. Its inactivation might lead to a deregulation of the tumor promoting Hedgehog pathway in medulloblastoma. Plays a role as a marker and a regulator of neuronal differentiation; Up-regulated by a variety of neurogenic signals, such as retinoic acid, epidermal growth factor/EGF and NGFB/nerve growth factor. Induces apoptosis, growth arrest and the expression of cyclin-dependent kinase inhibitor CDKN1B. Plays a role as a tumor repressor and inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Functions as antagonist of the Hedgehog pathway on cell proliferation and differentiation by affecting the nuclear transfer of transcrition factor GLI1, thus maintaining cerebellar granule cells in undifferentiated state.

Additional Information

Gene ID	147040
Other Names	C17orf36; KCASH1; REN; REN/KCTD11; KCD11_HUMAN; KCTD11; KCASH1 protein; Potassium channel tetramerization domain-containing protein 11; RING-type E3 ubiquitin transferase subunit KCTD11; KCD11_MOUSE; potassium channel tetramerization domain containing 11; chromosome 17 open reading frame 36; potassium channel tetramerisation domain containing 11
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-

	500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KCTD11
Synonyms	C17orf36, REN
Function	Plays a role as a marker and a regulator of neuronal differentiation; Up-regulated by a variety of neurogenic signals, such as retinoic acid, epidermal growth factor/EGF and NGFB/nerve growth factor. Induces apoptosis, growth arrest and the expression of cyclin- dependent kinase inhibitor CDKN1B. Plays a role as a tumor repressor and inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Acts as a probable substrate-specific adapter for a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex towards HDAC1. Functions as antagonist of the Hedgehog pathway on cell proliferation and differentiation by affecting the nuclear transfer of transcription factor GLI1, thus maintaining cerebellar granule cells in undifferentiated state, this effect probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. When knock-down, Hedgehog antagonism is impaired and proliferation of granule cells is sustained. Activates the caspase cascade.
Tissue Location	Higher expression in cerebellum than in whole brain and lower expression in medulloblastoma.

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