

Recombinant Mouse Kctd11 Protein, Myc/DDK-tagged

Cat. No. Kctd11-3665M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length potassium channel tetramerisation domain containing 11 (Kctd11), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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 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.
Molecular Mass	26.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Kctd11 potassium channel tetramerisation domain containing 11 [Mus musculus (house mouse)]
Official Symbol	Kctd11
Synonyms	KCTD11; potassium channel tetramerisation domain containing 11; BTB/POZ domain-containing protein KCTD11; retinoic acid, EGF, and NGF upregulated; Ren; AF465352
Gene ID	216858
mRNA Refseq	NM_153143
Protein Refseq	NP_694783
UniProt ID	Q8K485

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