

Product datasheet for PH305782

KCTD11 (NM_001002914) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	KCTD11 MS Standard C13 and N15-labeled recombinant protein (NP_001002914)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205782
Predicted MW:	25.9 kDa
Protein Sequence:	>RC205782 protein sequence Red =Cloning site Green =Tags(s) MLGAMFRAGTPMPPNLSQGGGHYFIDRDGKAFRHILNFLRGLDLPRGYGETALLRAEADFYQIRPLL DALRELEASQGTAPATAALLHADVDVSPRLVHFSARRGPHHYELSSVQVDTFRANLFCCTDSECLGALRAR FGVASGDRAEGSPHFHLEWAPRPVELPEVEYGRGLGLQPLWTGGPGERREVVGTPSFLEEVLRVALEHGFR LDSVFPDPEDLLNSRSLRFVRH TRTRP LEQKLI SEEDLA ANDILDYK DDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001002914
RefSeq Size:	3081
RefSeq ORF:	696
Synonyms:	C17orf36; KCASH1; REN; REN/KCTD11
Locus ID:	147040
UniProt ID:	Q693B1 , A0A158RFT7



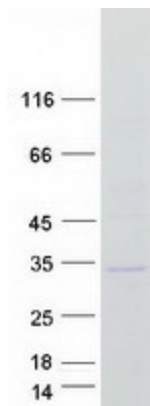
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Cytogenetics: 17p13.1

Summary: 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.[UniProtKB/Swiss-Prot Function]

Protein Families: Ion Channels: Other

Product images:



Coomassie blue staining of purified KCTD11 protein (Cat# [TP305782]). The protein was produced from HEK293T cells transfected with KCTD11 cDNA clone (Cat# [RC205782]) using MegaTran 2.0 (Cat# [TT210002]).