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Product datasheet for PH325651

Neuro D4 (DPF1) (NM_001135155) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DPF1 MS Standard C13 and N15-labeled recombinant protein (NP_001128627)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225651
Predicted MW:	46.6 kDa
Protein Sequence:	>RC225651 representing NM_001135155 Red=Cloning site Green=Tags(s) MGGLSARPTAGRTDPAGTCWGQDPGSKMATVIPGPLSLGEDFYREAIEHCRSYNARLCAERSLRLPFLDS QTGVAQNNCYIWMEKTHRGPGLAPGQIYTYPARCWRKKRRLNILEDPRLRPCEYKIDCEAPLKKEGGLPE GPVLEALLCAETGEKKIELKEEETIMDCQKQQLLEFPHDLEVEDLEDDIPRRKNRAKGKAYGIGGLRKRQ DTASLEDRDKPYVCDICGKRYKNRPGLSYHYTHTHLAEEEGEENAERHALPFHRKNNHKQFYKELAWVPE AQRKHTAKKAPDGTVIPNGYCDFCLGGSKKTGCPEDLISCADCGRSGHPSCLQFTVNMTAAVRTYRWQCI ECKSCSLCGTSENDDQLLFCDDCDRGYHMYCLSPPMAEPPEGSWSCHLCLRHLKEKASAYITLT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_001128627
RefSeq ORF:	1242
Synonyms:	BAF45b; NEUD4; neuro-d4
Locus ID:	8193
UniProt ID:	Q92782

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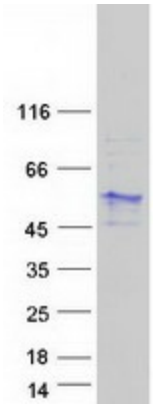
Cytogenetics: 19q13.2

Summary: May have an important role in developing neurons by participating in regulation of cell survival, possibly as a neurospecific transcription factor. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome, Transcription Factors

Product images:



Coomassie blue staining of purified DPF1 protein (Cat# [TP325651]). The protein was produced from HEK293T cells transfected with DPF1 cDNA clone (Cat# [RC225651]) using MegaTran 2.0 (Cat# [TT210002]).