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Product datasheet for PH321891

Doublecortin (DCX) (NM_178152) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCX MS Standard C13 and N15-labeled recombinant protein (NP_835365)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221891
Predicted MW:	40.4 kDa
Protein Sequence:	>RC221891 representing NM_178152 Red=Cloning site Green=Tags(s) MELDFGHFDERDKTSRNMRGSRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKVRFYRNGDRYFKGIVY AVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYTIDGSRKIGSMDELEEGESYVCSSDNFFKKVEYTK NVNPNWSVNVKTSANMKAPQSLASSNSAQARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQV LTDITEAIKLETGVVKKLYTLDGKQVTCLHDFFGDDDVFIACGPEKFRYAQDDFSLDENECRVMKGNPSA TAGPKASPTPQKTSAKSPGPMRRSKSPADSGNDQDANGTSSSQLSTPKSKQSPISTPTSPGSLRKHKDLY LPLSLDDSDSLGDSM 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_835365
RefSeq Size:	9069
RefSeq ORF:	1095
Synonyms:	DBCN; DC; LISX; SCLH; XLIS
Locus ID:	1641

View online »

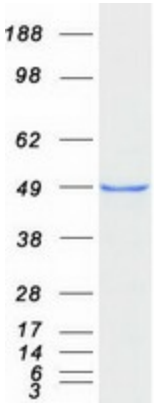
UniProt ID: O43602

Cytogenetics: Xq23

Summary: This gene encodes a member of the doublecortin family. The protein encoded by this gene is a cytoplasmic protein and contains two doublecortin domains, which bind microtubules. In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory gamma subunit of platelet activating factor acetylhydrolase, and this interaction is important to proper microtubule function in the developing cortex. Mutations in this gene cause abnormal migration of neurons during development and disrupt the layering of the cortex, leading to epilepsy, cognitive disability, subcortical band heterotopia ("double cortex" syndrome) in females and lissencephaly ("smooth brain" syndrome) in males. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2010]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified DCX protein (Cat# [TP321891]). The protein was produced from HEK293T cells transfected with DCX cDNA clone (Cat# [RC221891]) using MegaTran 2.0 (Cat# [TT210002]).