

Recombinant Human Doublecortin Protein, Flag tagged

Cat. No. DCX-20HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human doublecortin (DCX), transcript variant 2 with C-Flag tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	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.
Tag	C-Flag
Molecular Mass	40.4 kDa

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AA Sequence	MELDFGHFDERDKTSRNMGRSGRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKV RFYRNGDRYFKGIVYAVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYTIDGSRKI GSMDELEEGESYVCSSDNFFKKVEYTKNVNPNWSVNVKTSANMKAPQSLASSNSA QARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQVLTDATEAIKLETGVVKK LYTLDGKQVTCLHDDFFGDDDVFIACGPEKFRYAQDDFSLDENECRVMKGNPSATAG PKASPTPQKTSAKSPGPMRRSKSPADSGNDQDANGTSSSQLSTPKSKQSPISTPTS PGSLRKHKDLYLPLSLDDSDSLGDSMTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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.
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Concentration	> 0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name	DCX doublecortin [Homo sapiens (human)]
Official Symbol	DCX
Synonyms	DCX; doublecortin; doublecortex; lissencephaly, X linked (doublecortin); neuronal migration protein doublecortin; DBCN; DC; doublecortex; LISX; SCLH; XLIS; lis-X; doublin; lissencephalin-X; FLJ51296

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Gene ID	1641
mRNA Refseq	NM_178152
Protein Refseq	NP_835365
MIM	300121
UniProt ID	O43602
SDS-PAGE	