

# Recombinant Full Length Human DCX Protein, GST-tagged

Cat. No. DCX-2419HF Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Human DCX full-length ORF ( AAH27925, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 360 amino acids

### 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. [provided by RefSeq, Sep 2010]

**Molecular Mass** 65.34 kDa

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**AA Sequence**

MELDFGHFDERDKTSRNMGRSRMNGLPSPTHSAHCSFYRTRTLQALSNEKKAKKV  
 RFYRNGDRYFKGIVYAVSSDRFRSFDALLADLTRSLSDNINLPQGVRYIYTIDGSRKI  
 GSMDELEEGESYVCSSDNFFKKVEYTKNVNPNWSVNVKTSANMKAPQSLASSNSA  
 QARENKDFVRPKLVTIIRSGVKPRKAVRVLLNKKTAHSFEQVLTDITEAIKLETGVVKK  
 LYTLDGKQVTCLHDFFGDDVFIACGPEKFRYAQDDFSLDENECRVMKGNPSATAG  
 PKASPTPQKTSAKSPGPMRRSKSPADSANGTSSSQLSTPKSKQSPISTPTSPGSLR  
 KHKDLYLPLSLDDSDSLGDSM

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [DCX doublecortin \[ Homo sapiens \]](#)

**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;

**Gene ID** [1641](#)

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mRNA Refseq	NM_000555
Protein Refseq	NP_000546
MIM	300121
UniProt ID	O43602

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