



# Recombinant Human Neuronal migration protein doublecortin (DCX)

<b>Product Code</b>	CSB-BP006576HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O43602
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MKTLPLSHC TEMQRLLPKL EMLTLGSSFC SLQGEFCQAM DSFTTVSHVG MCEETDASFN VFSPKFQFDR SHCQSLRFHQ NMELDGFHFD ERDKTSRNMR GSRMNGLPSP THSAHCSFYR TRTLQALSNE KKAKKVRFYR NGDRYFKGIV YAVSSDRFRS FDALLADLTR SLSDNINLPQ GVRYYITIDG SRKIGSMDEL EEGESYVCSS DNFFKKVEYT KNVNPNWSVN VKTSANMKAP QSLASSNSAQ ARENKDFVRP KLVTIIRSGV KPRKAVRVLL NKKTAHSFEQ VLTDITEAIK LETGVVKKLY TLDGKQVTCL HDFFGDDDFV IACGPEKFRY AQDDFSLDEN ECRVMKGNPS ATAGPKASPT PQKTSKSPG PMRRSKSPAD SANGTSSSQL STPKSKQSPI STPTSPGSLR KHKDLYLPLS LDDSDSLGDS M
<b>Source</b>	Baculovirus
<b>Target Names</b>	DCX
<b>Protein Names</b>	Recommended name: Neuronal migration protein doublecortin Alternative name(s): Doublin Lissencephalin-X Short name= Lis-X
<b>Expression Region</b>	1-441
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	In the developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. This protein is a cytoplasmic protein which appears to direct neuronal migration by regulating the organization and stability of microtubules. The encoded protein contains two doublecortin domains, which bind 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 are a cause of X-linked lissencephaly. Multiple transcript variants encoding at least three different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.