Datasheet for ABIN7317238

Doublecortin Protein (DCX) (GST tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	Doublecortin (DCX)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Doublecortin protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human DCX Protein (aa 45-150, GST Tag)
Sequence:	Ala 45-Val 150
Characteristics:	A DNA sequence encoding the human DCX (O43602-2) N-terminal fragment (Ala 45-Val 150) was fused with the GST tag at the N-terminus.
Purity:	> 82 % as determined by reducing SDS-PAGE.

Target Details

Target:	Doublecortin (DCX)
Alternative Name:	DCX (DCX Products)
Background:	Background: DCX (doublecortin, N-GST chimera)contains 2 doublecortin domains and belongs to the doublecortin family. It is highly expressed in neuronal cells of fetal brain, but not expressed in other fetal tissues. In the adult, it is highly expressed in the brain frontal lobe, but very low expression in other regions of brain, and not detected in heart, placenta, lung, liver,

Target Details

	skeletal muscles, kidney and pancreas. DCX is a microtubule-associated protein required for initial steps of neuronal dispersion and cortex lamination during cerebral cortex development. It may act by competing with the putative neuronal protein kinase DCAMKL1 in binding to a target protein. DCX may in that way participate in a signaling pathway that is crucial for neuronal interaction before and during migration, possibly as part of a calcium ion-dependent signal transduction pathway. It may be part with LIS-1 of a overlapping, but distinct, signaling pathways that promote neuronal migration. Defects in DCX are the cause of lissencephaly X-linked type 1 and subcortical band heterotopia X-linked. Synonym: DBCN,DC,LISX,SCLH,XLIS
Molecular Weight:	39.4 kDa

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 1 mM DTT, 10 % glycerol, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.