Doublecortin (DCX) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Doublecortin (DCX), Polyclonal Antibody
Full Product Name	APC/CY7-Linked Polyclonal Antibody to Doublecortin (DCX)
Product Gene Name	anti-DCX antibody
Product Synonym Names	DBCN; DC; LISX; SCLH; XLIS; Doublin; Doublecortex; Lissencephalin-X; Lissencephaly, X-Linked; Neuronal migration protein doublecortin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: DCX (MBS2026481) APC-CY7 Conjugated Antibody: DCX (MBS2065685)
Matching Pairs	APC-CY7 Conjugated Antibody: DCX (MBS2065685) Immunogen: DCX (MBS2031050)
Molecular Weight	40,044 Da
OMIM	AJ003112 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	DCX (Met1~Met366)
Conjugation	APC-Cy7
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2026481
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-DCX antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-DCX antibody	MBS2065685 is an antibody targeting DCX. Also known as APC/CY7-Linked Polyclonal Antibody to Doublecortin (DCX). Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-DCX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DCX. It may not necessarily be applicable to this product.

NCBI GI #	3114810
NCBI GeneID	1641
NCBI Accession #	CAA06617.1

UniProt Secondary Accession #	O43911; Q5JYZ5; A6NFY6; A9Z1V8; D3DUY8; D3DUY9; D3DUZ0
UniProt Related Accession #	O43602
NCBI Official Full Name	doublecortin
NCBI Official Synonym Full Names	doublecortin
NCBI Official Symbol	DCX
NCBI Official Synonym Symbols	DC; DBCN; LISX; SCLH; XLIS
UniProt Protein Name	Neuronal migration protein doublecortin
UniProt Synonym Protein Names	Doublin; Lissencephalin-X; Lis-X
Protein Family	Neuronal migration protein doublecortin
UniProt Gene Name	DCX
UniProt Synonym Gene Names	DBCN; LISX; Lis-X
NCBI Protein Information	neuronal migration protein doublecortin
NCBI Summary for DCX	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, mental retardation, 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]
UniProt Comments for DCX	Microtubule-associated protein required for initial steps of neuronal dispersion and cortex lamination during cerebral cortex development. May act by competing with the putative neuronal protein kinase DCLK1 in binding to a target protein. 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. May be part with PAFAH1B1/LIS-1 of overlapping, but distinct, signaling pathways that promote neuronal migration.
Research Articles on DCX	**1.** From this family, we conclude that a DCX mutation causes a pleiotropic phenotype in the female even if X chromosome inactivation pattern is not skewed, and the novel missense mutation in DCX produced relatively mild dysfunction of the doublecortin protein.
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