



## Mouse Monoclonal Antibody to DCX

<b>Catalogue Number</b>	sAP-0731
<b>Target Molecule</b>	<b>Name: DCX</b> <b>Aliases:</b> DC; DBCN; LISX; SCLH; XLIS <b>MW: 49.3kDa</b> <b>Entrez Gene ID: 1641</b>
<b>Description</b>	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
<b>Immunogen</b>	Purified recombinant fragment of human DCX (AA: 362-411) expressed in E. Coli. ; ;
<b>Recombinant Species</b>	Human
<b>Clone</b>	MM2G5;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1.FASEB J. 2009 Dec;23(12):4276-87. ; 2.J Cell Biol. 2010 Nov 1;191(3):463-70. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**