



# Doublecortin (phospho-Ser297) rabbit pAb

Cat No.:ES16912

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## Overview

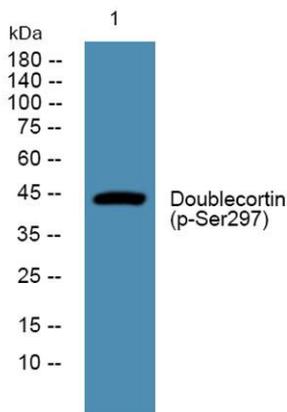
<b>Product Name</b>	Doublecortin (phospho-Ser297) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB
<b>Species Cross-Reactivity</b>	Human;Rat
<b>Recommended dilutions</b>	WB 1:1000-2000
<b>Immunogen</b>	Synthesized phospho peptide around human Doublecortin (Ser297)
<b>Specificity</b>	This antibody detects endogenous levels of Human Rat Doublecortin (phospho-Ser297)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Doublecortin (Ser297)
<b>Gene Name</b>	DCX DBCN LISX
<b>Cellular localization</b>	Cytoplasm . Cell projection, neuron projection . Localizes at neurite tips. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	44kD
<b>Human Gene ID</b>	1641
<b>Human Swiss-Prot Number</b>	O43602
<b>Alternative Names</b>	Neuronal migration protein doublecortin (Doublin) (Lissencephalin-X) (Lis-X)
<b>Background</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





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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"



Western blot analysis of lysates from PC12 cells, primary antibody was diluted at 1:1000, 4° over night



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