

## Anti-Phospho-Doublecortin/DCX (Ser297) Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 44 kDa.
Purification:	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

## Applications

Application:	WB
Recommended	WB: 1:1000-2000

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthesized phosphopeptide: human Doublecortin around the phosphorylation site of Ser297
Antigen Species:	human
Uniprot ID:	O43602
Synonyms:	p-Doublecortin/DCX (Ser297);Doublecortin/DCX (p-S297);Doublecortin/DCX (p-Ser297);p-Doublecortin/DCX (S297)

## Research Background

doublecortin(DCX) Homo sapiens 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 (&quot;double cortex&quot; syndrome) in females and lissencephaly (&quot;smooth brain&quot;

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