



Doublecortin rabbit pAb

Cat No.:ES4977

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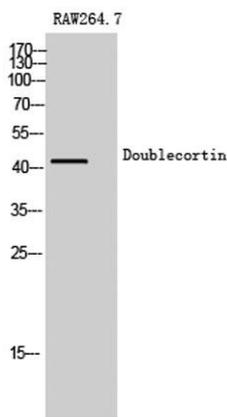
Overview

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|---------------------------------|---|
| Product Name | Doublecortin rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human Doublecortin. AA range:206-255 |
| Specificity | Doublecortin Polyclonal Antibody detects endogenous levels of Doublecortin protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Neuronal migration protein doublecortin |
| Gene Name | DCX |
| Cellular localization | Cytoplasm . Cell projection, neuron projection . Localizes at neurite tips. . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 44kD |
| Human Gene ID | 1641 |
| Human Swiss-Prot Number | O43602 |
| Alternative Names | DCX; DBCN; LISX; Neuronal migration protein doublecortin; Dublin; Lissencephalin-X; Lis-X |
| Background | 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 |

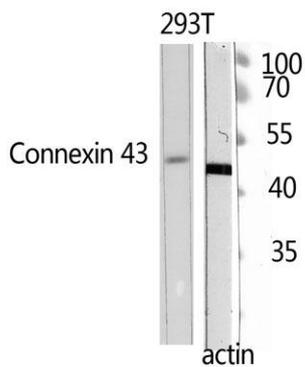




developing cortex, cortical neurons must migrate over long distances to reach the site of their final differentiation. The encoded protein appears to direct neuronal migration by regulating the organization and stability of microtubules. In addition, the encoded protein interacts with LIS1, the regulatory 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&quo

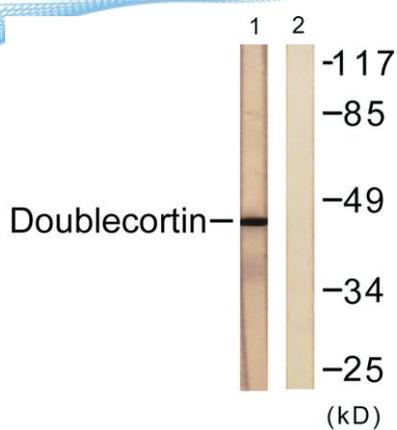


Western Blot analysis of RAW264.7 cells using Doublecortin Polyclonal Antibody diluted at 1:500



Western Blot analysis of 293T using Doublecortin Polyclonal Antibody. Antibody was diluted at 1:500





Western blot analysis of lysates from RAW264.7 cells, using Doublecortin Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1, primary Antibody was diluted at 1:200 (4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200

