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DCLK3 Antibody
Catalog # ASC11081

Specification

DCLK3 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	Q9C098
Other Accession	NP_208382, 85443
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**DCLK3 antibody can be used for detection of DCLK3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

DCLK3 Antibody - Additional Information

Gene ID **85443**

Target/Specificity
DCLK3 antibody was raised against a 14 amino acid synthetic peptide near the amino terminus of human DCLK3.

The immunogen is located within the last 50 amino acids of DCLK3.

Reconstitution & Storage
DCLK3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
DCLK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DCLK3 Antibody - Protein Information

Name DCLK3

Synonyms DCAMKL3, DCDC3C, KIAA1765

Cellular Location
Cytoplasm. Nucleus.

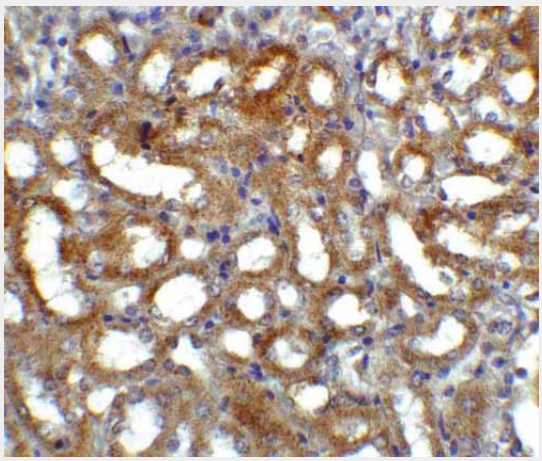
DCLK3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

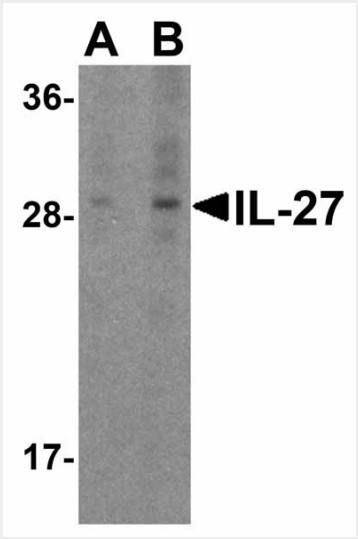
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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DCLK3 Antibody - Images



Immunohistochemistry of GFR alpha 3 in mouse kidney tissue with GFR alpha 3 antibody at 5 µg/ml.



Western blot analysis of IL-27 in A-20 cell lysate with IL-27 antibody at (A) 1 and (B) 2 µg/mL.

DCLK3 Antibody - Background

DCLK3 Antibody: DCLK3 is one of three doublecortin-like kinases similar to the Ca2+/calmodulin-dependent protein kinase (CaMK) family. DCLK3 mRNA, like that of the homologous DCLK1 and DCLK3, is highly expressed in adult brain, but only DCLK3 transcripts are present in liver and kidney, suggesting that DCLK3 may play other roles than in cortical development. The DCLK proteins are homologous to Doublecortin (DCX), a protein that is mutated in X-linked human lissencephaly. In mouse models where the DCX gene has been disrupted, DCLK1

expression increases slightly and appears to compensate for the loss of DCX, as mice mutant for both DCX and DCLK1 show a severe phenotype including perinatal lethality, disorganized neocortical layering, and profound hippocampal cytoarchitectural disorganization.

DCLK3 Antibody - References

Ohmae S, Takemoto-Kimura S, Okamura M, et al. Molecular identification and characterization of a family of kinases with homology to Ca2+/calmodulin-dependent protein kinases I/IV. J. Biol. Chem.2006; 281:20427-39.
Sossey-Alaoui K and Srivastava AK. DCAMKL1, a brain specific transmembrane protein on 13q12.3 that is similar to doublecortin (DCX), Genomics1999; 56:121-6.
Tuy FPD, Saillour Y, Kappeler C, et al. Alternative transcripts of Dlck1 and Dlck2 and their expression in doublecortin knockout mice. Dev. Neurosci.2008; 30:171-86.
Reiner O and Coquelle FM. Missense mutations resulting in type 1 lissencephaly. Cell Mol. Life Sci.2005; 62:425-34.