

#62257 Store at -20°C

DCLK1/DCAMKL1 (D2U3L) XP® Rabbit mAb



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TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P	H M R	Endogenous	82	Rabbit IgG	#O15075	9201

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:100
1:300

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #10208.

Specificity / Sensitivity

DCLK1/DCAMKL1 (D2U3L) XP® Rabbit mAb recognizes endogenous levels of total DCLK1/DCAMKL1 protein. The identity of the faint lower molecular weight bands is not known.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human DCLK1/DCAMKL1 protein.

Background

Doublecortin-like kinase 1 (DCLK1, DCAMKL1) is a serine/threonine kinase that belongs to the CaM kinase family and shares homology with the neuronal microtubule binding protein doublecortin. DCLK1 is thought to be involved in calcium signaling pathways controlling neuronal development in the embryonic brain (1,2). The kinase also functions in the mature nervous system and is highly expressed in regions of active neurogenesis in the neocortex and cerebellum (3,4). Research studies suggest that the DCLK1 kinase is highly expressed in subpopulations of cells within the colon and gastric epithelium and in the pancreas (5-8). The nature of these cell populations, whether normal, stem-like, or tumor-initiating, is unclear.

Background References

- Burgess, H.A. et al. (1999) *J Neurosci Res* 58, 567-75.
- Tanaka, T. et al. (2006) *Cereb Cortex* 16 Suppl 1, i69-73.
- Shin, E. et al. (2013) *Nat Commun* 4, 1440.
- Saaltink, D.J. et al. (2012) *J Comp Neurol* 520, 2805-23.
- May, R. et al. (2009) *Stem Cells* 27, 2571-9.
- May, R. et al. (2010) *Am J Physiol Gastrointest Liver Physiol* 299, G303-10.
- Saqui-Salces, M. et al. (2011) *Histochem Cell Biol* 136, 191-204.
- Qu, D. et al. (2014) *Am J Physiol Gastrointest Liver Physiol* 306, G404-11.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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