

DCNP1 Antibody

Catalog # ASC11790

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8TF63
Other Accession	NP_570900 , 18677770
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	26704
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	DCNP1 antibody can be used for detection of DCNP1 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	140947
Other Names	Dendritic cell nuclear protein 1, Dendritic cell nuclear protein-1, Dendritic cell-associated nuclear protein, DCANP1 (HGNC:24459)
Target/Specificity	C5orf20; DCNP1 antibody is human, mouse and rat reactive.
Reconstitution & Storage	DCNP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	DCNP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DCANP1 (HGNC:24459)
Function	Binds with and transactivates the corticotropin-releasing hormone (CRH) promoter.
Cellular Location	Nucleus. Cytoplasm Note=Particularly on the periphery. Colocalizes with corticotropin- releasing hormone (CRH) in parvocellular neurons in the paraventricular nucleus.
Tissue Location	Expressed in neurons of the paraventricular nucleus, thalamus and occipital cortex and in glial cells (at protein level). Predominantly expressed in dendritic cells. Detected in brain and skeletal muscle. Highly expressed in mature dendritic cells and at a lower level in immature dendritic cells.

Expressed in paraventricular nucleus, supraoptic nucleus and nucleus basalis of Meynert. Strongly expressed in paraventricular nucleus of depressed patients compared to controls. Not expressed in monocytes and B-cells

Background

The DCNP1 (dendritic cell nuclear protein 1) gene is specifically expressed in dendritic cells, potent antigen-presenting cells involved in activating naive T cells to initiate antigen-specific immune response (1). It is localized mainly in the perinucleus. One of the alleles (A/T) of this gene causes premature translation termination at aa 117 and has been associated with an increased prevalence of major depression in humans (2,3). DCNP1 may play a role in the pathogenesis of depressive disorders by enhancing corticotropin-releasing hormone expression in the hypothalamic paraventricular nucleus (4).

References

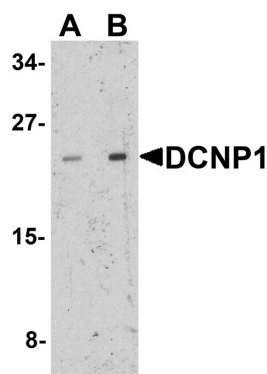
Masuda M, Senju S, Fujii Si S, et al. Identification and immunocytochemical analysis of DCNP1, a dendritic cell-associated nuclear protein. *Biochem. Biophys. Res. Commun.* 2002; 290:1022-9.

Willis-Owen SA, Shifman S, Copley RR, et al. DCNP1: a novel candidate gene for major depression. *Mol. Psychiatry* 2006; 11:121-2.

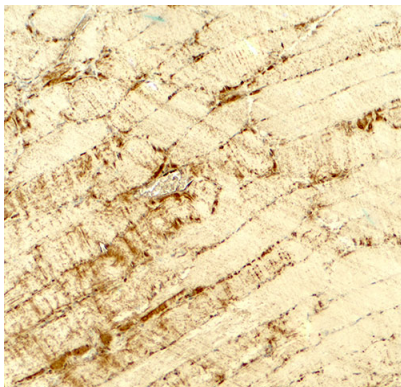
Bosker FJ, Hartman CA, Nolte IM, et al. Poor replication of candidate genes for major depressive disorder using genome-wide association data. *Mol. Psychiatry* 2011; 16:516-32.

Zhou T, Wang S, Ren H, et al. Dendritic cell nuclear protein-1, a novel depression-related protein, upregulates corticotropin-releasing hormone expression. *Brain* 2010; 133:3069-79.

Images

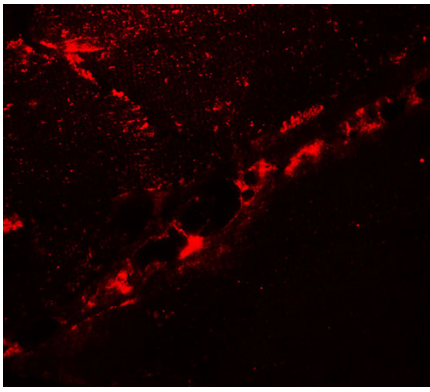


Western blot analysis of DCNP1 in mouse skeletal muscle tissue lysate with DCNP1 antibody at (A) 1 and (B) 2 µg/ml.



Immunohistochemistry of DCNP1 in mouse skeletal muscle tissue with DCNP1 antibody at 5 µg/ml.

Immunofluorescence of DCNP1 in mouse skeletal muscle tissue with DCNP1 antibody at 20 µg/ml.



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