

DCNP1 Antibody
Catalog # ASC11790**Specification**

DCNP1 Antibody - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q8TF63
Other Accession	NP_570900 , 18677770
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 27 kDa

Application Notes

Observed: 24 kDa KDa
DCNP1 antibody can be used for detection of DCNP1 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.

DCNP1 Antibody - Additional Information

Gene ID **140947**

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.

DCNP1 Antibody - 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

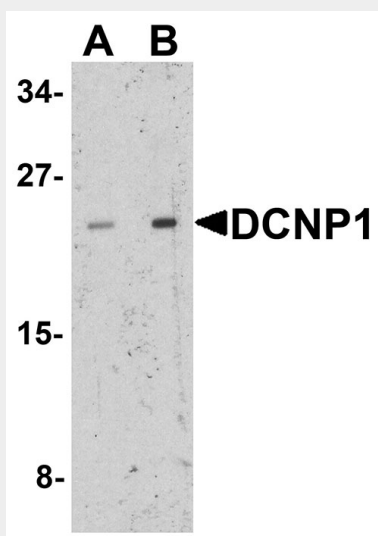
muscle. Highly expressed in mature dendritic cells and at a lower level in immature dendritic cells. Expressed in paraventricular nucleus, supraoptic nucleus and nucleus basalis of Meynert. Strongly expressed in paraventricular nucleus of depressed patients compared to controls. Not expressed in monocytes and B-cells

DCNP1 Antibody - Protocols

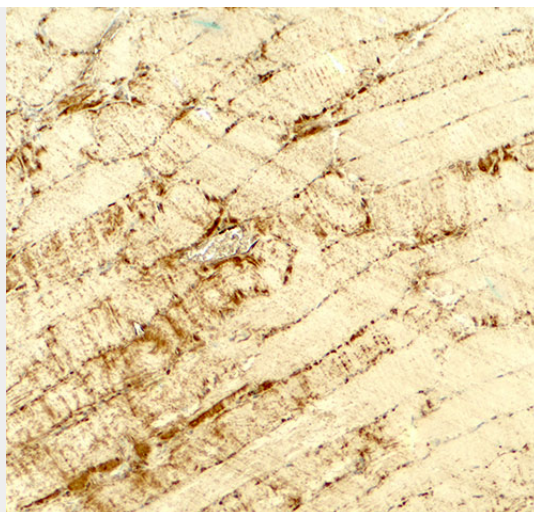
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

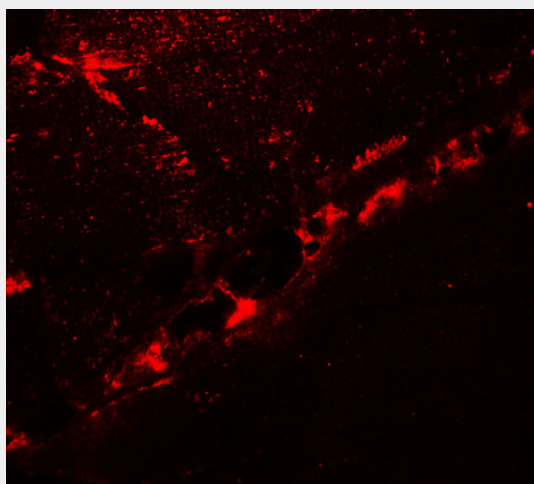
DCNP1 Antibody - Images



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.

DCNP1 Antibody - 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).

DCNP1 Antibody - 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.