For Research Use Only

CEND1 Polyclonal antibody

Catalog Number:13280-1-AP 2 Publications

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Basic Information

Catalog Number:
13280-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4024

GenBank Accession Number:
BC034732

GeneID (NCBI):
51286

UNIPROT ID:
Q8N111

Full Name:
cell cycle exit and neuronal differentiation 1

Calculated MW:
149 aa, 15 kDa

Observed MW:
23 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
rat, goat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, SH-SY5Y cells, human brain tissue, rat brain tissue

IHC : mouse brain tissue, rat brain tissue

IF/ICC : Neuro-2a cells,

Background Information

Cell cycle exit and neuronal differentiation 1 (CEND1) also known as BM88, is a neuronal protein associated in vivo with terminal neuron-generating divisions, marking the exit of proliferative cells from the cell cycle (PMID: 17971443). CEND1 expression is critical for the NEUROG2-driven reprogramming of astrocytes, suggesting the existence of a reciprocal feedback loop leading to neurogenesis (PMID: 26321141). CEND1 is an integral membrane protein composed of two 23-kDa polypeptide chains linked together by disulfide bridges.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoying Huang	39401663	J Ethnopharmacol	WB
Zhimin Wang	38388551	Cell Death Discov	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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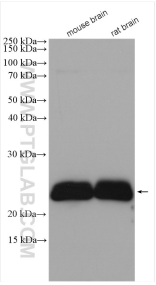
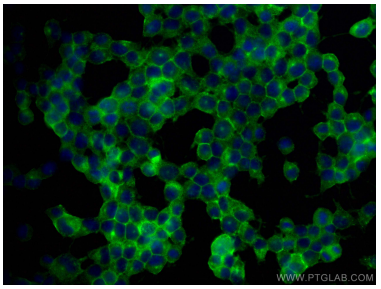
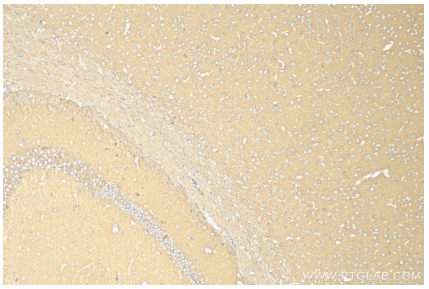
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13280-1-AP (CEND1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed Neuro-2a cells using CEND1 antibody (13280-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13280-1-AP (CEND1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).