For Research Use Only

Neudesin/NENF Monoclonal antibody

Catalog Number:60131-1-Ig 1 Publications

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Basic Information

Catalog Number:
60131-1-Ig

Size:
150ul , Concentration: 1300 ug/ml by Nanodrop and 1200 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG8387

GenBank Accession Number:
BC008823

GeneID (NCBI):
29937

UNIPROT ID:
Q9UMX5

Full Name:
neuron derived neurotrophic factor

Calculated MW:
172 aa, 19 kDa

Observed MW:
19 kDa, 16 kDa

Purification Method:
Protein A purification

CloneNo.:
4G9E12

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:20-1:2000
IF/ICC 1:50-1:2000

Applications

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

Cited Applications:
WB

Species Specificity:
human, pig

Cited Species:
human

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 : HeLa cells, human brain tissue, HepG2 cells, LNCaP cells, A549 cells, HCT 116 cells, Jurkat cells, pig brain tissue

IHC : human cerebellum tissue, human colon tissue, human colon cancer tissue, human heart tissue, human kidney tissue

IF/ICC : HepG2 cells, HeLa cells

Background Information

Neudesin neurotrophic factor (NENF, also known as CIR2, SPUF, and SCIRP10) acts as a neurotrophic factor in postnatal mature neurons enhancing neuronal survival, which is localized to mitochondria and endoplasmic reticulum by PINK1 and PARK7 (PMID: 31536960). NENF in the adult brain is expected to play roles in the maintenance and protection of neurons in an autocrine/paracrine manner (PMID: 15605373). It greatly increases cAMP levels in neural precursor cells and might activate a Gs-protein-coupled receptor that could activate the MAPK, PKA, and PI-3K signal pathways (PMID: 16547973).

Notable Publications

Author	Pubmed ID	Journal	Application
Guixin Wang	39294690	Cancer Cell Int	WB

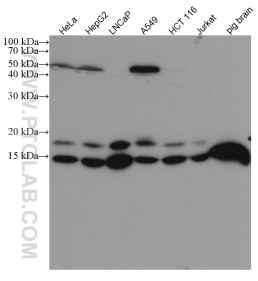
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

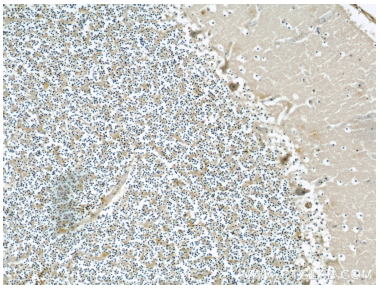
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

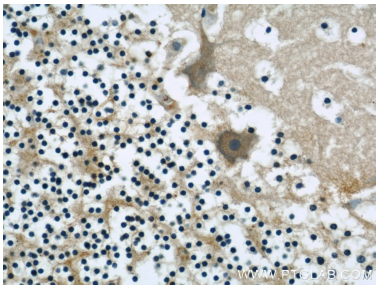
Selected Validation Data



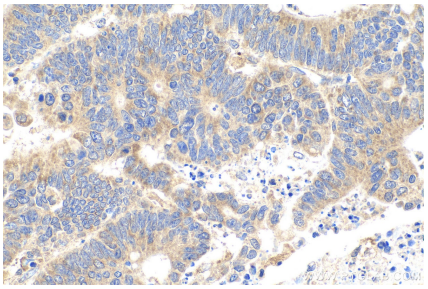
Various lysates were subjected to SDS PAGE followed by western blot with 60131-1-Ig (Neudesin/NENF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



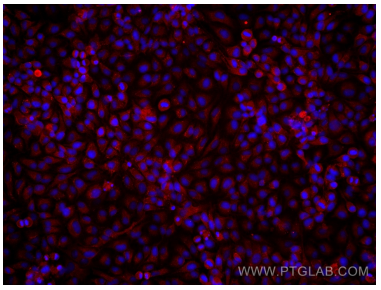
Immunohistochemical analysis of paraffin-embedded human cerebellum using 60131-1-Ig(NENF antibody) at dilution of 1:50 (under 10x lens).



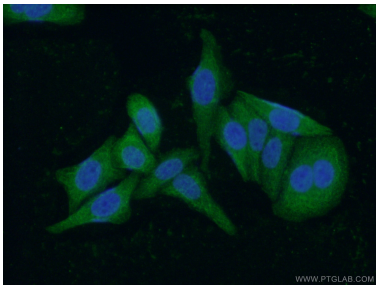
Immunohistochemical analysis of paraffin-embedded human cerebellum using 60131-1-Ig(NENF antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60131-1-Ig (Neudesin/NENF antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Neudesin/NENF antibody (60131-1-Ig, Clone: 4G9E12) at dilution of 1:1900 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60131-1-Ig(NENF antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).