

Neudesin/NENF Monoclonal antibody

Catalog Number: 60131-1-Ig 1 Publications

Basic Information

Catalog Number: 60131-1-Ig	GenBank Accession Number: BC008823	Purification Method: Protein A purification
Size: 150ul , Concentration: 1300 ug/ml by Nanodrop and 1200 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 29937	CloneNo.: 4G9E12
Source: Mouse	UNIPROT ID: Q9UMX5	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:20-1:2000 IF/ICC 1:500-1:2000
Isotype: IgG2a	Full Name: neuron derived neurotrophic factor	
Immunogen Catalog Number: AG8387	Calculated MW: 172 aa, 19 kDa	
	Observed MW: 19 kDa, 16 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB	WB : HeLa cells, human brain tissue, HepG2 cells, LNCaP cells, A549 cells, HCT 116 cells, Jurkat cells, pig brain tissue
Species Specificity: human, pig	IHC : human cerebellum tissue, human colon tissue, human colon cancer tissue, human heart tissue, human kidney tissue
Cited Species: human	IF/ICC : HepG2 cells, HeLa cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

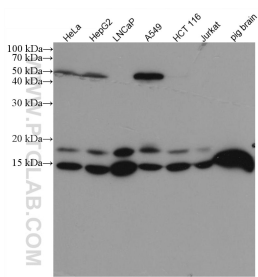
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

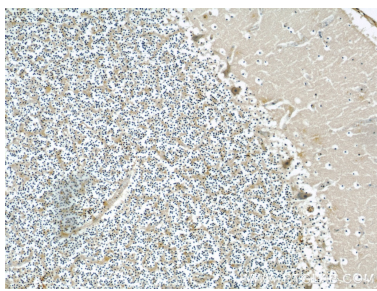
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

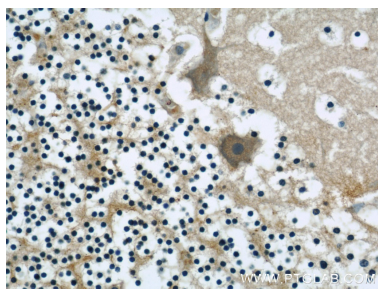
Selected Validation Data



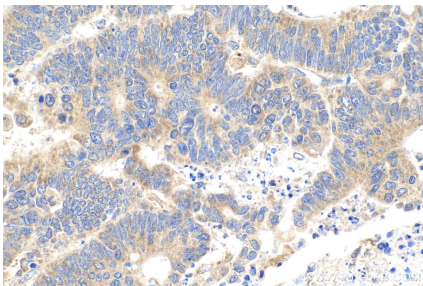
Various lysates were subjected to SDS PAGE followed by western blot with 60131-1-Ig (Neudesin/NENF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



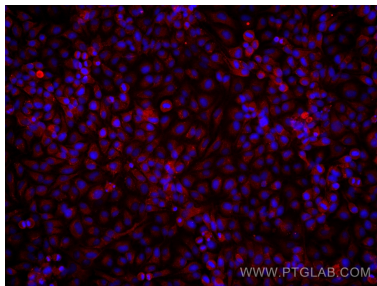
Immunohistochemical analysis of paraffin-embedded human cerebellum using 60131-1-Ig(NENF antibody) at dilution of 1:50 (under 10x lens).



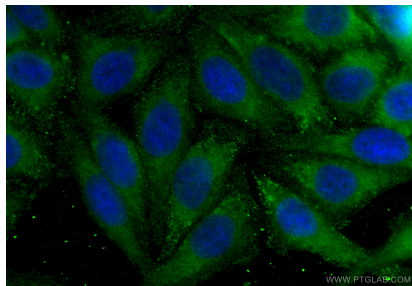
Immunohistochemical analysis of paraffin-embedded human cerebellum using 60131-1-Ig(NENF antibody) at dilution of 1:50 (under 40x lens).



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 Methanol) fixed HepG2 cells using Neudesin/NENF antibody (60131-1-Ig, Clone: 4G9E12) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).