

For Research Use Only

NDNL2 Polyclonal antibody

Catalog Number: 27488-1-AP

1 Publications



Basic Information

Catalog Number:

27488-1-AP

Size:

150ul, Concentration: 230 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26663

GenBank Accession Number:

BC053999

GeneID (NCBI):

56160

UNIPROT ID:

Q96MG7

Full Name:

necdin-like 2

Calculated MW:

34 kDa

Observed MW:

38 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

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 : HepG2 cells, L02 cells, HeLa cells, human placenta tissue

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

NDNL2 (also known as NSMCE3 or MAGEG1) is a part of the SMC5-6 protein complex that is essential for DNA damage response and chromosome segregation (PMID: 18086888; 27427983). The gene of human NDNL2 maps to chromosome 15q13.1. Northern blot analysis detected expression of a 1.9-kb transcript in all human tissues tested, with highest expression in testis (PMID: 11782285). Missense mutations in NSMCE3 have been associated with an autosomal recessive chromosome breakage syndrome that leads to defective T and B cell function and acute respiratory distress syndrome in early childhood (PMID: 27427983).

Notable Publications

Author	Pubmed ID	Journal	Application
Stephanie Pei Tung Yiu	35263599	Cell Rep	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

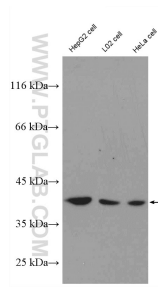
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

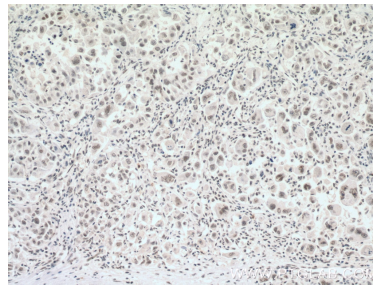
E: proteintech@ptglab.com
W: ptglab.com

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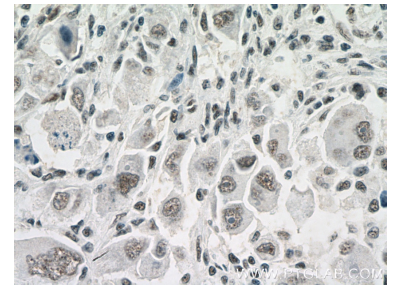
Selected Validation Data



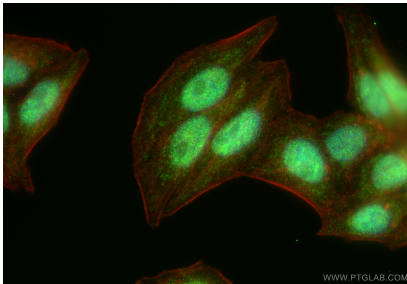
HepG2, L02 and HeLa cells were subjected to SDS PAGE followed by western blot with 27488-1-AP (NDNL2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 27488-1-AP (NDNL2 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 27488-1-AP (NDNL2 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NDNL2 antibody (27488-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).