For Research Use Only

NMD3 Polyclonal antibody

Catalog Number:16060-1-AP Featured Product 9 Publications

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Basic Information

Catalog Number:
16060-1-AP

Size:
150ul , Concentration: 260 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8894

GenBank Accession Number:
BC013317

GeneID (NCBI):
51068

UNIPROT ID:
Q96D46

Full Name:
NMD3 homolog (S. cerevisiae)

Calculated MW:
503 aa, 58 kDa

Observed MW:
58 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

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

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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, mouse liver tissue, rat liver tissue

IP : HepG2 cells,

IHC : human breast cancer tissue, human liver tissue

IF/ICC : HepG2 cells,

Background Information

Human NMD3 gene encodes 60S ribosomal export protein which was found in a 60S ribosomal subunit export complex with RAN and XPO1. This nucleocytoplasmic shuttling protein NMD3 is an adaptor for export of the 60S ribosomal subunit from the nucleus. NMD3 contains a CRM-1-dependent leucine-rich nuclear export signal (NES) and a dispersed nuclear localization signal (NLS), the basic region of which is also required for nucleolar accumulation. NMD3 are required for nuclear export of the 60S ribosomal subunit in yeast and vertebrate cells, recent finding has also revealed its role in Arabidopsis thaliana.

Notable Publications

Author	Pubmed ID	Journal	Application
Wong Chi C CC	21803848	Blood	WB
Andrew J Finch	21536732	Genes Dev	WB
Kaosheng Lv	33711283	Cell Stem Cell	WB

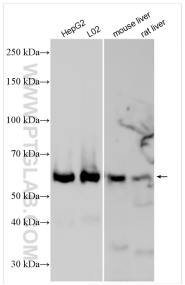
Storage

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

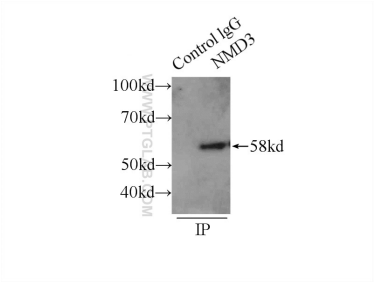
*** 20ul sizes contain 0.1% BSA

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

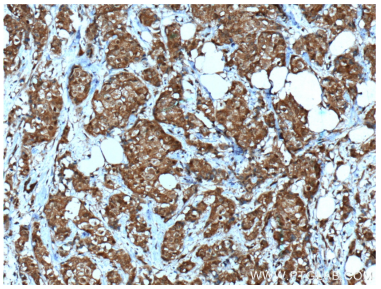
Selected Validation Data



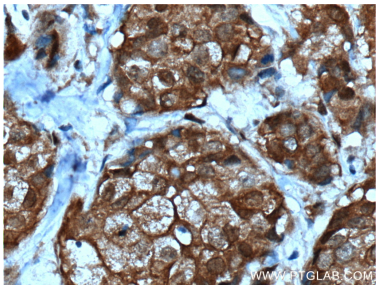
Various lysates were subjected to SDS PAGE followed by western blot with 16060-1-AP (NMD3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



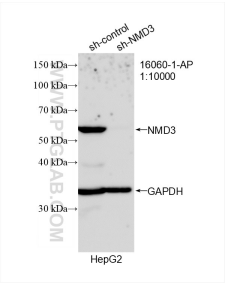
IP result of anti-NMD3 (IP:16060-1-AP, 3ug; Detection:16060-1-AP 1:800) with HepG2 cells lysate 1720ug.



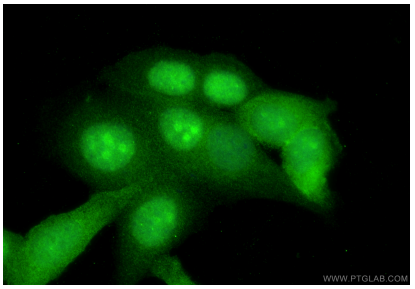
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16060-1-AP (NMD3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16060-1-AP (NMD3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of NMD3 antibody (16060-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NMD3 transfected HepG2 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NMD3 antibody (16060-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).