For Research Use Only

DICER1 Polyclonal antibody

Catalog Number:20567-1-AP Featured Product 23 Publications

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Basic Information

Catalog Number:
20567-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_030621

GeneID (NCBI):
23405

Full Name:
dicer 1, ribonuclease type III

Calculated MW:
219 kDa

Observed MW:
220-250 kDa, 90 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
IHC 1:50-1:500
IF 1:10-1:100

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, 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 : HeLa cells, K-562 cells, HepG2 cells

IP : Jurkat cells,

IHC : human testis tissue, human lung cancer tissue

IF : HepG2 cells, human ovary tumor tissue

Background Information

DICER1, also named as DICER, HERNA and KIAA0928, belongs to the helicase family and Dicer subfamily. It is required for formation of the RNA induced silencing complex (RISC). DICER1 is a component of the RISC loading complex (RLC), also known as the micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, EIF2C2/AGO2 and TARBP2. Within the RLC/miRLC, DICER1 and TARBP2 are required to process precursor miRNAs (pre-miRNAs) to mature miRNAs and then load them onto EIF2C2/AGO2. EIF2C2/AGO2 bound to the mature miRNA constitutes the minimal RISC and may subsequently dissociate from DICER1 and TARBP2. DICER1 cleaves double-stranded RNA to produce short interfering RNAs (siRNAs) which target the selective destruction of complementary RNAs. The antibody is specific to DICER1. The calcualted molecular weight of DICER1 is 219 kDa, but modified DICER1 is about 220-250 kDa. DICER1 exists some isoforms with molecular weight 219 kDa and 93 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
An Yan	36273819	Nucleic Acids Res	IF
Yan Wang	34695450	Neurochem Int	WB
Tao Zuo	29049992	Cell Physiol Biochem	WB

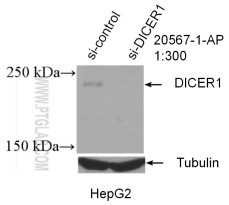
Storage

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

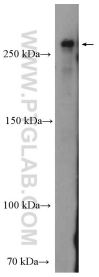
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

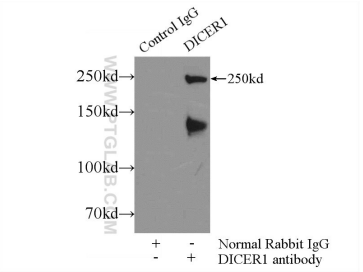
Selected Validation Data



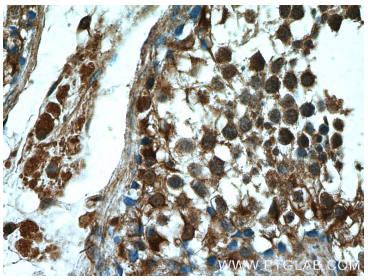
WB result of DICER1 antibody (20567-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-DICER1 transfected HepG2 cells.



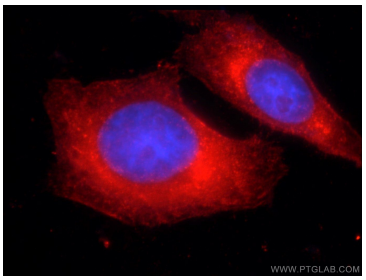
HeLa cells were subjected to SDS PAGE followed by western blot with 20567-1-AP (DICER1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



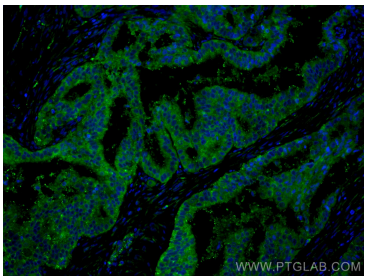
IP Result of anti-DICER1 (IP:20567-1-AP, 5ug; Detection:20567-1-AP 1:300) with Jurkat cells lysate 2000ug.



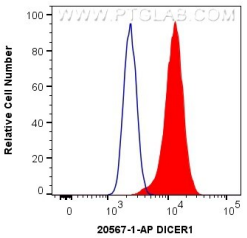
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 20567-1-AP (DICER1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 20567-1-AP (DICER1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



Immunofluorescent analysis of (4% PFA) fixed human ovary tumor tissue using DICER1 antibody (20567-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human DICER1 (20567-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).