

For Research Use Only

# DICER1 Monoclonal antibody

Catalog Number: 68375-1-Ig



## Basic Information

Catalog Number:

68375-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG30368

GenBank Accession Number:

NM\_030621

GeneID (NCBI):

23405

UNIPROT ID:

Q9UPY3

Full Name:

dicer 1, ribonuclease type III

Calculated MW:

219 kDa

Observed MW:

240-250 kDa

Purification Method:

Protein G purification

CloneNo.:

1C8E2

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

Human, mouse

Positive Controls:

WB : U2OS cells, LNCaP cells, HeLa cells, HEK-293 cells, K-562 cells, Jurkat cells, Ramos cells, Sp2/O cells

IP : Jurkat cells,

IF/ICC : HepG2 cells,

## Background Information

DICER1 functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. DICER1 cleaves naturally occurring long dsRNAs and short hairpin pre-microRNAs (miRNA) into fragments of twenty-one to twenty-three nucleotides with 3' overhang of two nucleotides, and producing respectively short interfering RNAs (siRNA) and mature microRNAs. SiRNAs and miRNAs serve as guide to direct the RNA-induced silencing complex (RISC) to complementary RNAs to degrade them or prevent their translation.

## 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

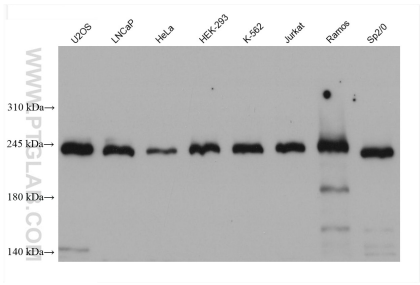
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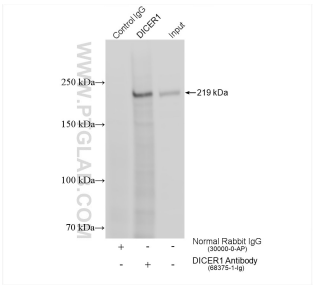
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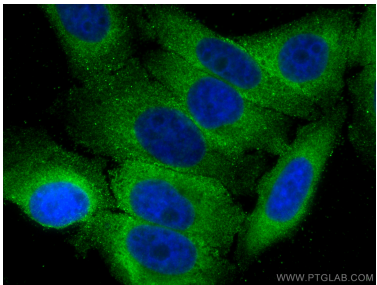
Selected Validation Data



U2OS cells were subjected to SDS PAGE followed by western blot with 68375-1-Ig (DICER1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-DICER1 (IP:68375-1-Ig, 4ug; Detection:68375-1-Ig 1:500) with Jurkat cells lysate 1560 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using DICER1 antibody (68375-1-Ig, Clone: 1C8E2 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).