

For Research Use Only

DGCR8 N-terminal Polyclonal antibody

Catalog Number: 25835-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

25835-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG22988

GenBank Accession Number:

BC078147

GeneID (NCBI):

54487

UNIPROT ID:

Q8WYQ5

Full Name:

DiGeorge syndrome critical region gene 8

Calculated MW:

773 aa, 86 kDa

Observed MW:

88-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

IF

Species Specificity:

human

Cited Species:

mouse, bovine

Positive Controls:

WB : HeLa cells, A431 cells

IP : A431 cells,

IHC : human ovary cancer tissue,

IF/ICC : 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

DGCR8 is a RNA-binding protein that assists the RNase III enzyme Drosha in the processing of microRNAs (miRNAs), which regulate the expression of a large number of protein-coding genes [PMID: 22580560]. DGCR8, which contains two double-stranded RNA (dsRNA)-binding domains, may be an essential component of the primary miRNAs processing complex, along with Drosha, promoting the processing of primary microRNA to precursor microRNA. It is ubiquitously expressed in human and mouse tissues, and is deleted in DiGeorge syndrome [22323604]. The calculated molecular weight of DGCR8 is 82-86 kDa, but the post-modified DGCR8 is about 120 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
An Yan	36273819	Nucleic Acids Res	IF
Erika E Paulson	36322738	Proc Natl Acad Sci U S A	IF

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

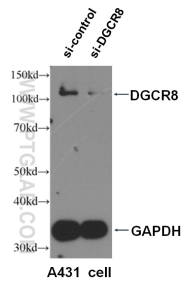
For technical support and original validation data for this product please contact:

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

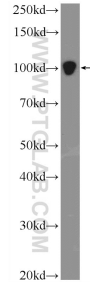
E: proteintech@ptglab.com
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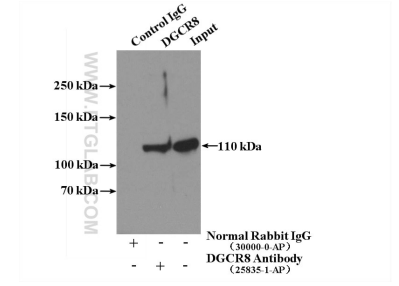
Selected Validation Data



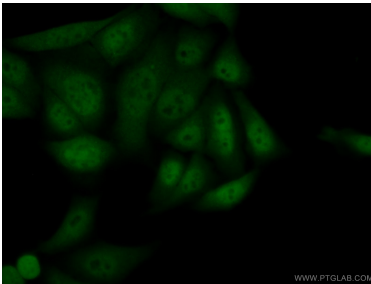
WB result of DGCR8 antibody (25835-1-AP, 1:2000) with si-control and si-DGCR8 transfected A431 cells.



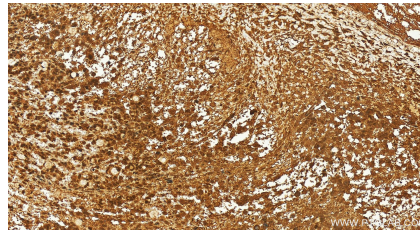
HeLa cells were subjected to SDS PAGE followed by western blot with 25835-1-AP (DGCR8 N-terminal antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-DGCR8 N-terminal (IP:25835-1-AP, 4ug; Detection:25835-1-AP 1:600) with A431 cells lysate 2800ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 25835-1-AP (DGCR8 N-terminal antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 25835-1-AP (DGCR8 N-terminal antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).