

For Research Use Only

# DGCR8 C-terminal Polyclonal antibody

Catalog Number:10996-1-AP

Featured Product

85 Publications



## Basic Information

### Catalog Number:

10996-1-AP

### Size:

150ul , Concentration: 480 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1429

### GenBank Accession Number:

BC009323

### GeneID (NCBI):

54487

### UNIPROT ID:

Q8WYQ5

### Full Name:

DiGeorge syndrome critical region gene 8

### Calculated MW:

773 aa, 86 kDa

### Observed MW:

120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

protein lysate

IHC 1:50-1:200

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, RIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : HEK-293 cells, A431 cells, mouse testis tissue, Jurkat cells, HeLa cells

IP : HEK-293 cells,

IHC : human breast cancer tissue, human colon cancer tissue

IF/ICC : SH-SY5Y 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 ubiquitous 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 (PMID: 18469815).

## Notable Publications

Author	Pubmed ID	Journal	Application
Keita Tsujimura	26344767	Cell Rep	WB
Cazalla Demián D	21925386	Mol Cell	WB
Patricia Landry	19668211	Nat Struct Mol Biol	WB, 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

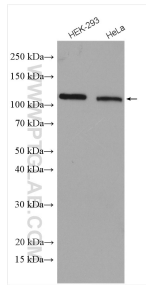
For technical support and original validation data for this product please contact:

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

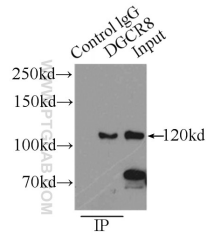
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

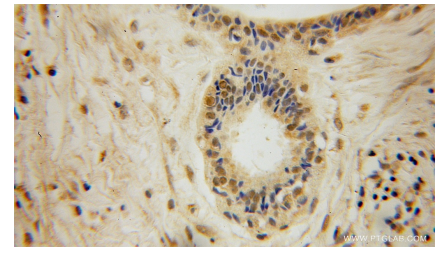
## Selected Validation Data



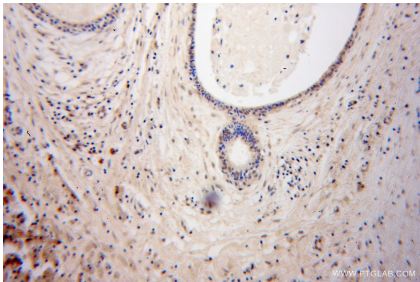
Various lysates were subjected to SDS PAGE followed by western blot with 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



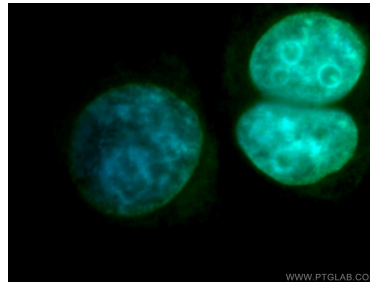
IP result of anti-DGCR8 C-terminal (IP:10996-1-AP, 3ug; Detection:10996-1-AP 1:800) with HEK-293 cells lysate 2700ug.



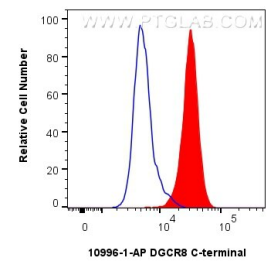
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:100 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of SH-SY5Y cells, using DGCR8 antibody 10996-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25 ug DGCR8 C-terminal Polyclonal antibody (10996-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).