

For Research Use Only

DGCR8 C-terminal Polyclonal antibody

Catalog Number: 10996-1-AP

Featured Product

86 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

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

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

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 : 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,

FC (Intra) : HeLa cells,

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 (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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

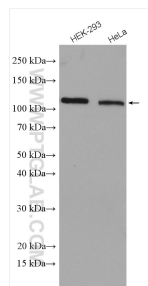
For technical support and original validation data for this product please contact:

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

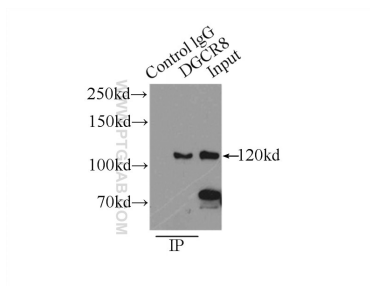
E: proteintech@ptglab.com
W: ptglab.com

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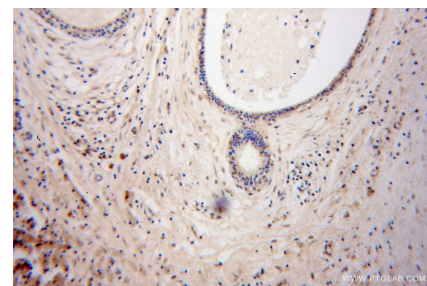
Selected Validation Data



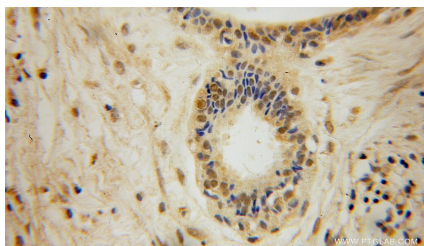
Various lysates were subjected to SDS PAGE followed by western blot with 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



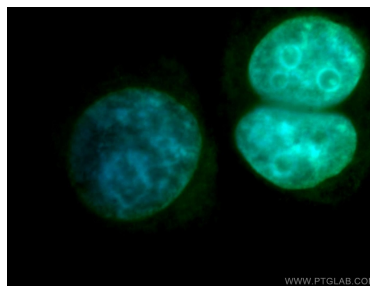
IP result of anti-DGCR8 C-terminal (IP:10996-1-AP, 3ug; Detection:10996-1-AP 1:800) with HEK-293 cells lysate 2700ug.



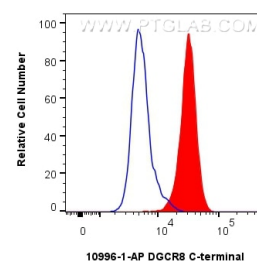
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:100 (under 10x lens).



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



1x10⁶ 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-O-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).