For Research Use Only

DGCR8 C-terminal Polyclonal antibody

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Catalog Number:10996-1-AP Featured Product 84 Publications

Basic Information

Catalog Number:
10996-1-AP

Size:
150ul , Concentration: 480 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1429

GenBank Accession Number:
BC009323

GeneID (NCBI):
54487

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 1:20-1:200

Applications

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

Cited Applications:
ChIP, CoIP, IF, IHC, IP, RIP, WB

Species Specificity:
human, mouse

Cited Species:
human, rat, mouse

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 : SH-SY5Y 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 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:
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E: proteintech@ptglab.com
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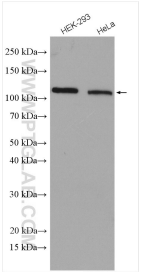
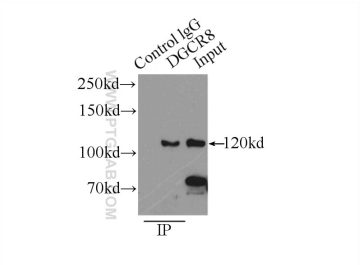
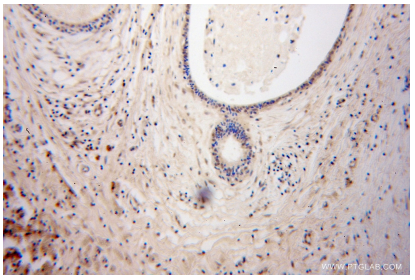
Selected Validation Data



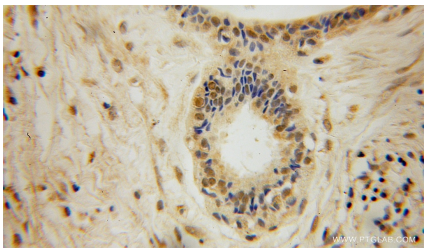
Various lysates were subjected to SDS PAGE followed by western blot with 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



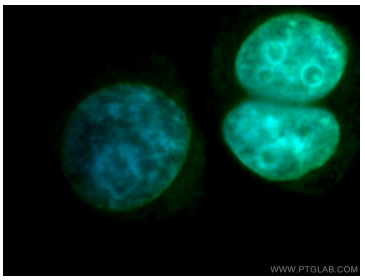
IP Result of anti-DGCR8 C-terminal (IP:10996-1-AP, 3ug; Detection:10996-1-AP 1:800) with HEK-293 cells lysate 2700ug.



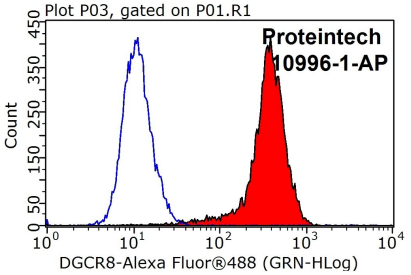
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 C-terminal antibody) at dilution of 1:100 (under 10x lens).



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).



1X10^6 HeLa cells were stained with 0.2ug DGCR8 C-terminal antibody (10996-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.