DGCR8 C-terminal  
Polyclonal ANTIBODY  
Catalog Number: 10996-1-AP  
Featured Product  56 Publications

Basic Information
- **Catalog Number:** 10996-1-AP
- **Size:** 28 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1429
- **GenBank Accession Number:** BC009323
- **GeneID (NCBI):** 54487
- **Full Name:** DiGeorge syndrome critical region gene 8
- **Calculated MW:** 773aa, 86 kDa
- **Observed MW:** 120 kDa
- **Recommended Dilutions:**
  - **WB:** 1:500-1:1000
  - **IP:** 0.5-4.0 μg for IP and 1:500-1:1000 for WB
  - **IHC:** 1:50-1:200
  - **IF:** 1:20-1:200

Applications
- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** ChIP, IF, IHC, IP, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, 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:** Jurkat cells; A431 cells, HEK-293 cells, HeLa cells, mouse testis tissue
- **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 Phase 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

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<th>Author</th>
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<tr>
<td>Keita Tsujimura</td>
<td>2634767</td>
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<td>Cazalla Demian D</td>
<td>2152936</td>
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<tr>
<td>Patricia Landry</td>
<td>1966211</td>
<td>Nat Struct Mol Biol</td>
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Storage
- **Store at:** -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For Research Use Only

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For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

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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Jurkat cells were subjected to SDS-PAGE followed by western blot with 10996-1-AP (DGCR8 C-terminal antibody) at a dilution of 1:800 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 a 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 555 (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). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.