antibodies.com

# Datasheet for ABIN5692841 anti-DGCR8 antibody (AA 561-762)

2 Images



#### Overview

| Quantity:            | 100 µg   |
|----------------------|--|
| Target:              | DGCR8  |
| Binding Specificity: | AA 561-762   |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This DGCR8 antibody is un-conjugated                     |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC) |

## Product Details

| Brand:                      | Picoband™   |  |  |  |  |
|-----------------------------|---|--|--|--|--|
| Immunogen:                  | E. coli-derived human DGCR8 recombinant protein (Position: K561-Q762).                                      |  |  |  |  |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.  |  |  |  |  |
| Characteristics:            | Rabbit IgG polyclonal antibody for DGCR8 detection. Tested with WB, IHC-P, Direct ELISA in Human,Mouse,Rat. |  |  |  |  |

## Target Details

| Target:           | DGCR8  |
|-------------------|--|
| Alternative Name: | DGCR8 (DGCR8 Products)   |
| Background:       | Synonyms: Microprocessor complex subunit DGCR8, DiGeorge syndrome critical region 8, |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN5692841 | 09/10/2023 | Copyright antibodies-online. All rights reserved. DGCR8, C22orf12, DGCRK6, LP4941

Tissue Specificity: Ubiquitously expressed.

Background: The DGCR8 microprocessor complex subunit (DiGeorge syndrome chromosomal [or critical] region 8) is a protein that in humans is encoded by the DGCR8 gene. This gene encodes a subunit of the microprocessor complex which mediates the biogenesis of microRNAs from the primary microRNA transcript. The encoded protein is a double-stranded RNA binding protein that functions as the non-catalytic subunit of the microprocessor complex. This protein is required for binding the double-stranded RNA substrate and facilitates cleavage of the RNA by the ribonuclease III protein, Drosha. Alternate splicing results in multiple transcript variants.

Pathways:

Regulatory RNA Pathways

### Application Details

| Application Notes: | Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG |
|--------------------|---|
|                    | (ABIN921124) for Western blot.  |
|                    | Application Details: Western blot, 0.1-0.5 µg/mL                                  |
|                    | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL                      |
|                    | Direct ELISA, 0.1-0.5 µg/mL   |
| Restrictions:      | For Research Use only   |

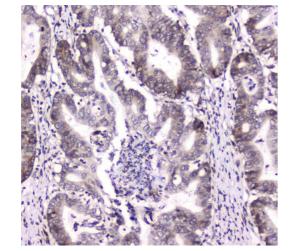
#### Handling

| Format:            | Lyophilized   |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|
| Reconstitution:    | Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.   |  |  |  |  |  |
| Buffer:            | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na $_2$ HPO $_4$ , 0.05 mg NaN $_3$ .  |  |  |  |  |  |
| Preservative:      | Sodium azide  |  |  |  |  |  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.  |  |  |  |  |  |
| Storage:           | 4 °C,-20 °C   |  |  |  |  |  |
| Storage Comment:   | At -20°C for one year. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing<br>and thawing. |  |  |  |  |  |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN5692841 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

|                                      | 1 | 2 | з | 4 | 5 | 6     | 7 |
|--------------------------------------|---|---|---|---|---|-------|---|
| <b>KUa</b><br>180 -<br>130 -<br>95 - | _ | _ | _ |   |   | _     | _ |
| 72 -<br>55 -                         |   |   |   |   |   |       |   |
| 43 -                                 |   |   |   |   |   |       |   |
| 34-                                  |   |   |   |   |   | -     |   |
| 26-                                  |   |   |   |   |   | 10000 |   |
|                                      |   |   |   |   |   |       |   |

17-



#### Western Blotting

Image 1. Western blot analysis of DGCR8 using anti-DGCR8 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human COLO-320 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: human A549 whole cell lysates, Lane 6: human MCF-7 whole cell lysates, Lane 7: human 22RV1 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DGCR8 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DGCR8 at approximately 100KD. The expected band size for DGCR8 is at 86KD.

#### Immunohistochemistry

**Image 2.** IHC analysis of DGCR8 using anti-DGCR8 antibody . DGCR8 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-DGCR8 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN5692841 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN5692841 | 09/10/2023 | Copyright antibodies-online. All rights reserved.