

# **DGCR8 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55509

### **Specification**

### **DGCR8 Polyclonal Antibody - Product Information**

Application Primary Accession Reactivity Host Clonality

WB, IHC-P, IHC-F, IF, ICC 08WY05
Rat, Chimpanzee

Rabbit Polyclonal 86045

# **DGCR8 Polyclonal Antibody - Additional Information**

**Gene ID 54487** 

Calculated MW

#### **Other Names**

Microprocessor complex subunit DGCR8, DiGeorge syndrome critical region 8, DGCR8, C22orf12, DGCRK6

### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

### **DGCR8 Polyclonal Antibody - Protein Information**

### Name DGCR8

Synonyms C22orf12, DGCRK6

#### **Function**

Component of the microprocessor complex that acts as a RNA- and heme-binding protein that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DGCR8 function as a molecular anchor necessary for the recognition of pri-miRNA at dsRNA-ssRNA junction and directs DROSHA to cleave 11 bp away form the junction to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs (PubMed:<a href="http://www.uniprot.org/citations/26027739" target="\_blank">26027739</a>/a>, PubMed:<a href="http://www.uniprot.org/citations/26748718" target="\_blank">26748718</a><a href="http://www.uniprot.org/citatio



### **Cellular Location**

Nucleus. Nucleus, nucleolus. Note=Colocalizes with nucleolin and DROSHA in the nucleolus. Mostly detected in the nucleolus as electron- dense granular patches around the fibrillar center (FC) and granular component (GC). Also detected in the nucleoplasm as small foci adjacent to splicing speckles near the chromatin structure. Localized with DROSHA in GW bodies (GWBs), also known as P-bodies (PubMed:17159994)

**Tissue Location**Ubiquitously expressed.

### **DGCR8 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

**DGCR8 Polyclonal Antibody - Images**