

## anti- DGCR8 antibody

### Product Information

Catalog No.:	FNab02353
Size:	100µg
Form:	liquid
Purification:	Protein A+G purification
Purity:	≥95% as determined by SDS-PAGE
Host:	Mouse
Clonality:	monoclonal
Clone ID:	2G8
IsoType:	IgG1
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

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:26027739, PubMed:26748718). The heme-bound DGCR8 dimer binds pri-miRNAs as a cooperative trimer(of dimers) and is active in triggering pri-miRNA cleavage, whereas the heme-free DGCR8 monomer binds pri-miRNAs as a dimer and is much less active. Both double-stranded and single-stranded regions of a pri-miRNA are required for its binding(PubMed:15531877, PubMed:15574589, PubMed:15589161, PubMed:16751099, PubMed:16906129, PubMed:16963499, PubMed:17159994). Specifically recognizes and binds N6-methyladenosine(m6A)-containing pri-miRNAs, a modification required for pri-miRNAs processing(PubMed:25799998). Involved in the silencing of embryonic stem cell self-renewal(By similarity).

### Immunogen information

Immunogen: DiGeorge syndrome critical region gene 8

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### Wuhan Fine Biotech Co., Ltd.

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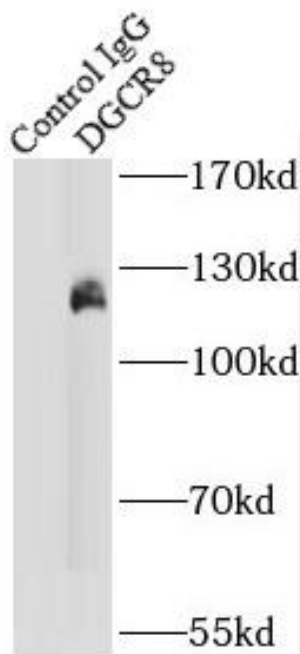
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Synonyms: C22orf12, DGCRK6  
Observed MW: 120 kDa  
UniprotID : Q8WYQ5

### Application

Reactivity: Human, Mouse  
Tested Application: ELISA, WB, IP  
Recommended dilution: WB: 1:500-1:2000; IP: 1:500-1:1000  
Image:



IP Result of anti-DGCR8 (IP:FNab02353, 5ug;  
Detection:FNab02353 1:500) with K-562 cells  
lysate 3440ug.

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K-562 cells were subjected to SDS PAGE followed by western blot with FNab02353(DGCR8 antibody) at dilution of 1:1000

