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Datasheet for ABIN7113479
anti-DGCR8 antibody

Overview

Quantity:	100 µg
Target:	DGCR8
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DGCR8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	DiGeorge syndrome critical region gene 8
Clone:	2G8
Isotype:	IgG1
Purification:	Protein A+G purification
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	DGCR8
Alternative Name:	DGCR8 (DGCR8 Products)
Background:	Synonyms:C22orf12, DGCRK6 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)

Target Details

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 from 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).

Molecular Weight: 120 kDa

Gene ID: 54487

UniProt: [Q8WYQ5](#)

Pathways: [Regulatory RNA Pathways](#)

Application Details

Application Notes: WB: 1:500-1:2000, IP: 1:500-1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

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: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Handling

Expiry Date: 12 months