

Anti-DGCR8 Antibody (2I601)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2I601
Purification:	Affinity-chromatography

Applications

	Western Blot
	-Positive WB detected in: K562 whole cell lysate
Verified Activity:	-All lanes: DGCR8 antibody at 2.65µg/ml
	-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
	-Predicted band size: 87, 33, 83 KDa
	-Observed band size: 100 KDa
Application:	ELISA, WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human DGCR8
Antigen Species:	Human
Gene ID:	54487
Uniprot ID:	Q8WYQ5
Synonyms:	DiGeorge syndrome critical region gene 8;DGCR8 microprocessor complex subunit;DiGeorge syndrome critical region 8;D16Wis2;Gy1;DGCRK 6;pasha;DGCR 8;C22orf12;D16H22S788E; Microprocessor complex subunit DGCR8
Biology Area:	Epigenetics and Nuclear Signaling

Research 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 from the junction to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. 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

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single-stranded regions of a pri-miRNA are required for its binding. Specifically recognizes and binds N6-methyladenosine (m6A)-containing pri-miRNAs, a modification required for pri-miRNAs processing. Involved in the silencing of embryonic stem cell self-renewal.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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