

Product Name: KD-Validated DGCR8 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01005**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 86.0kDa

Antigen Information

Gene Name	DGCR8
Alternative Names	DGCR8; DGCR8 Microprocessor Complex Subunit; DGCRK6; DiGeorge Syndrome Critical Region Gene 8; Microprocessor Complex Subunit DGCR8; DiGeorge Syndrome Critical Region 8; C22orf12; Pasha; Gy1; DGCR8, Microprocessor Complex Subunit; Chromosome 22 Open Reading Frame 12; C22ORF12; PASHA; GY1
Gene ID	54487.0
SwissProt ID	Q8WYQ5
Immunogen	A synthesized peptide derived from human DGCR8

Background

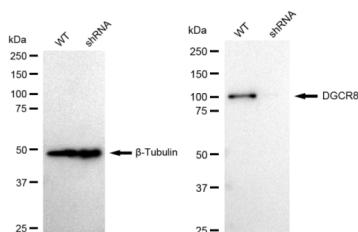
This gene encodes a subunit of the microprocessor complex which mediates the biogenesis of microRNAs from the primary

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. [provided by RefSeq, Jun 2010]

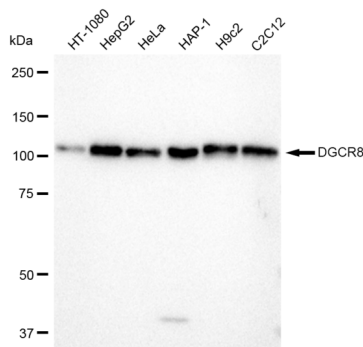
Research Area

Epigenetics and Nuclear Signaling

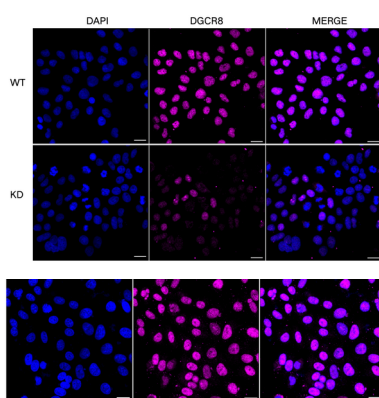
Image Data



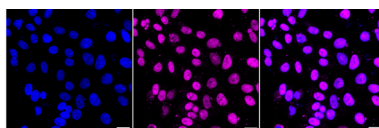
Western blotting analysis using DGCR8 antibody (KVA01005). DGCR8 expression in wild type (WT) and DGCR8 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with DGCR8 antibody (KVA01005, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



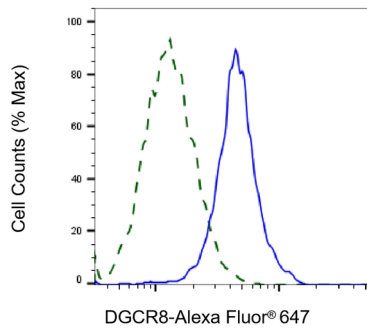
Western blotting analysis using DGCR8 antibody (KVA01005). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DGCR8 antibody (KVA01005, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



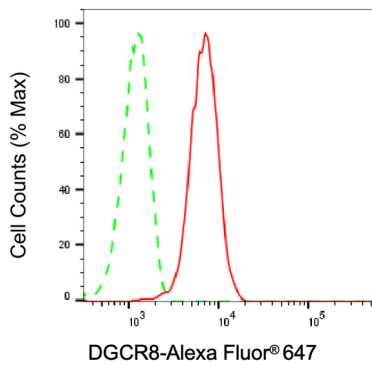
Immunocytochemical staining of HeLa cells using DGCR8 antibody (KVA01005, 1:1,000), Top panel: wild-type (WT); Bottom panel: DGCR8 shRNA knockdown (KD). Nuclei were stained blue with DAPI; DGCR8 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with DGCR8 antibody (KVA01005, 1:1,000). Nuclei were stained blue with DAPI; DGCR8 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of DGCR8 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DGCR8 antibody (KVA01005, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of DGCR8 expression in HepG2 cells using DGCR8 antibody (KVA01005, 1:2,000). Green, isotype control; red, DGCR8.