

DGCR8 C-terminal Polyclonal Antibody

Catalog number: 10996-1-AP

Size: 28 µg/150 µl

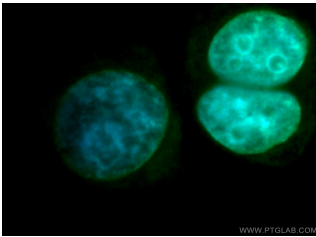
Source: Rabbit

Isotype: IgG

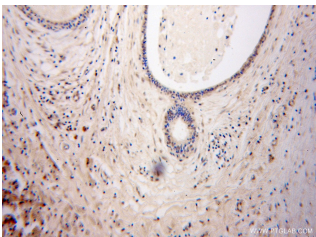
Synonyms:

DGCR8; C22orf12, DGCR8,

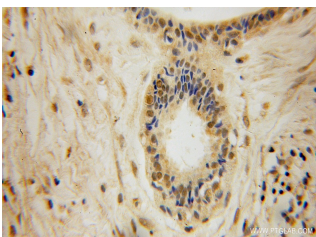
DGCRK6, Gy1



Immunofluorescent analysis of SH-SY5Y cells, using DGCR8 antibody 10996-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human breast cancer using 10996-1-AP (DGCR8 antibody) at dilution of 1:100 (under 40x lens)

Background

DGCR8 is a RNA-binding protein that assists the RNase III enzyme Drosha in the processing of microRNAs (miRNAs), which regulate the expression of a large number of protein-coding genes [PMID: 22580560]. DGCR8, which contains two double-stranded RNA (dsRNA)-binding domains, may be an essential component of the primary miRNAs processing complex, along with Drosha, promoting the processing of primary microRNA to precursor microRNA. It is ubiquitously expressed in human and mouse tissues, and is deleted in DiGeorge syndrome [22323604]. The calculated molecular weight of DGCR8 is a 82-86 kDa protein, but the post-modified DGCR8 is about 120 kDa.

Applications

Tested applications:	ELISA, WB, IHC, IF, IP, FC
Cited applications:	IF, IHC, IP, RnaIP, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated DGCR8 C-terminal MW:	773aa, 86 kDa
Observed DGCR8 C-terminal MW:	120 kDa
Positive WB detected in	Jurkat cells, A431 cells, HEK-293 cells, HeLa cells, mouse testis tissue
Positive IP detected in	HEK-293 cells
Positive IHC detected in	Human breast cancer tissue, human colon cancer tissue
Positive IF detected in	SH-SY5Y cells
Positive FC detected in	HeLa cells, SH-SY5Y cells
Recommended dilution:	WB: 1:200-1:2000
	IP: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:20-1:200
	FC: N/A

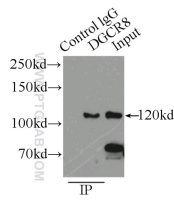
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

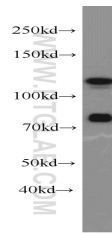
Immunogen:	Ag1429
GenBank accession number:	BC009323
Gene ID (NCBI):	54487
Full name:	DiGeorge syndrome critical region gene 8

Product information

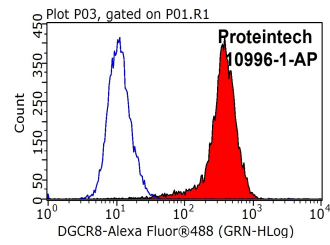
Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-DGCR8
(IP:10996-1-AP, 3ug;
Detection:10996-1-AP 1:800)
with HEK-293 cells lysate
2700ug.



Jurkat cells were subjected to
SDS PAGE followed by
western blot with 10996-1-
AP(DGCR8 antibody) at
dilution of 1:800



1X10⁶ HeLa cells were
stained with 0.2ug DGCR8
antibody (10996-1-AP, red)
and control antibody (blue).
Fixed with 4% PFA blocked
with 3% BSA (30 min). Alexa
Fluor 488-conjugated
AffiniPure Goat Anti-Rabbit
IgG(H+L) with dilution 1:1000.