

# ANTIBODIES FOR EPIGENETICS

Notable Proteintech<sup>®</sup> products for epigenetics.

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## PRODUCT FOCUS

### DGCR8 C-Terminal Antibody

**Catalog Number**  
**10996-1-AP**

**Type**  
**Rabbit Polyclonal**

**Applications**  
**ELISA, ChIP, FC, IF, IHC, IP, WB**

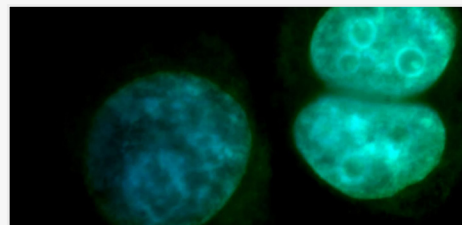
**51 Publications**

**KD/KO Validated**

#### References

- Noncanonical function of DGCR8 controls mESC exit from pluripotency (PMID: 28100686).
- Schizophrenia-Related Microdeletion Impairs Emotional Memory through MicroRNA-Dependent Disruption of Thalamic Inputs to the Amygdala (PMID: 28538174).

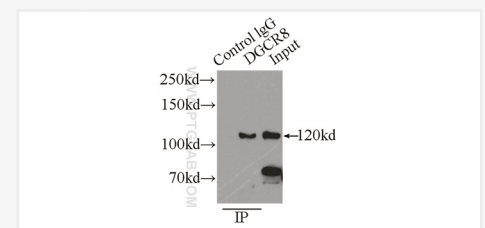
MicroRNA cleavage by the Drosha-Dgcr8 'Microprocessor' complex is critical for microRNA biogenesis. DGCR8 is an RNA-binding protein that assists the RNase III enzyme in the processing of microRNAs. However, DGCR8's other roles in the cell are still under investigation. Using Proteintech DGCR8 C-Terminal antibody (10996-1-AP), scientists can discover more about DGCR8's functions. Recently, Cirera-Salinas et al., described a new non-canonical function of DGCR8 in the modulation of the



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

alternative splicing of Tcf7l1 mRNA in addition to its established function in microRNA biogenesis.<sup>1</sup>

In the context of neurological disorders, individuals lacking DGCR8 function are at increased risk of developing schizophrenia. Eon and colleagues discovered that dysregulation of the Dgcr8-Drd2 underlies some pathogenic mechanisms related to emotional memory deficits for those with DGCR8 deletions.<sup>2</sup>



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

### HDAC1 Antibody

**Catalog Number**  
**10197-1-AP**

**Type**  
**Rabbit Polyclonal**

**Applications**  
**ELISA, FC, IF, IHC, IP, WB**

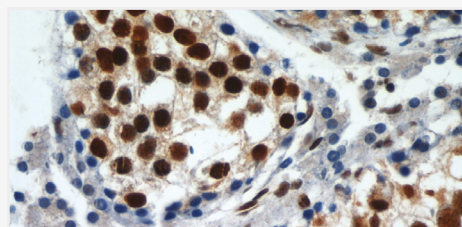
**13 Publications**

**KD/KO Validated**

#### References

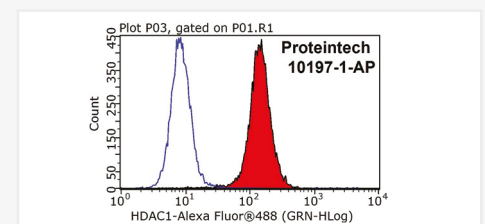
- Effect of Histone Deacetylase Inhibition on the Expression of Multidrug Resistance-associated Protein 2 in a Human Placental Trophoblast Cell Line (PMID: 28524836).

Histone deacetylases (HDACs) are a class of enzymes that remove the acetyl groups from the lysine residues in histones. This modification condenses and transcriptionally silences regions of chromatin. Due to their influence on gene expression, HDACs play a crucial role in development and physiology, having many implications for disease and therapy.



























































*Immunohistochemical staining of paraffin-embedded human testis using HDAC1 antibody (10197-1-AP) at a dilution of 1:50 (under 40x lens).*





























































As an example, placental multidrug resistance-associated protein 2 (MRP2), an HDAC, plays a significant role in regulating drugs' transplacental transfer rates. While working with Proteintech HDAC1 antibody (10197-1-AP), Duan and colleagues showed that HDACs inhibition can up-regulate placental MRP2 expression.<sup>1</sup>




*1X10<sup>6</sup> HeLa cells were stained with the 0.2ug HDAC1 antibody (10197-1-AP, red) and a control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at a dilution of 1:1000.*

Antibody Name	Cat. No.	Type	Applications
ADRM1	  11468-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
beta-Catenin	 66379-1-Ig	Mouse Mono	ELISA, IF, IHC, IP, WB
BMI1	  10832-1-AP	Rabbit Poly	ELISA, ChIP, CoIP, IF, IHC, IP, WB
CBX1	  10241-2-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
CBX3	  11650-2-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
CBX5	 11831-1-AP	Rabbit Poly	ELISA, IP, WB
c-Cbl	25818-1-AP	Rabbit Poly	ELISA, IP, WB
CHD4	 14173-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
CLOCK	  18094-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
c-MYC	  10828-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
CNOT1	  14276-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
CYLD	  11110-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
DDB1	  11380-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
DGCR8 C-terminal	  10996-1-AP	Rabbit Poly	ELISA, ChIP, FC, IF, IHC, IP, WB
DHX38	  10098-2-AP	Rabbit Poly	ELISA, ChIP, IF, IP, WB
DICER1	  20567-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
DNMT1	  24206-1-AP	Rabbit Poly	ELISA, IF, IP, WB
ERCC3	  10580-1-AP	Rabbit Poly	ELISA, IP, WB
GCN5	  14983-1-AP	Rabbit Poly	ELISA, WB
H2AFY2	17030-1-AP	Rabbit Poly	ELISA, IP, WB
HDAC1	  10197-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
HDAC2	  12922-3-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
HDAC3	  10255-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
HDAC4	  17449-1-AP	Rabbit Poly	ELISA, ChIP, IF, IHC, IP, WB
HDAC4-specific	  16165-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
HDAC6	 12834-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
HDAC7	26207-1-AP	Rabbit Poly	ELISA, IP
HDAC8	 17548-1-AP	Rabbit Poly	ELISA, IF, IP, WB
Histone H1	18201-1-AP	Rabbit Poly	ELISA, IP, WB
Histone H1.0	 17510-1-AP	Rabbit Poly	ELISA, IF, IP, WB
Histone H1.2	 19649-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
Histone H2A.X	 10856-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, WB
Histone H2A.z	  16441-1-AP	Rabbit Poly	ELISA, IF, WB
Histone H2B	 15857-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
Histone-H3	 17168-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
Histone H4	 16047-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
HMGA2	  20795-1-AP	Rabbit Poly	ELISA, IF, IP, WB

 This icon shows that the antibody has been validated using a siRNA knockdown/knockout experiment.

Antibody Name	Cat. No.	Type	Applications
HMGB1	  10829-1-AP	Rabbit Poly	ELISA, ChIP, FC, IF, IHC, IP, WB
HNRNPK	  11426-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
ISG15	 15981-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
KDM3A, JMJD1A	  12835-1-AP	Rabbit Poly	ELISA, ChIP, IF, IHC, IP, WB
KU70	  10723-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
MBD3	 14258-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
MECP2	 10861-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
MSH2	 60161-1-Ig	Mouse Mono	ELISA, IHC, WB
MSH2	  15520-1-AP	Rabbit Poly	ELISA, FC, IF, IHC, IP, WB
MSH6	 66172-1-Ig	Mouse Mono	ELISA, IF, IHC, IP, WB
NCBP1	  10349-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
NEDD8	 16777-1-AP	Rabbit Poly	ELISA, IHC, WB
PCNA	 60097-1-Ig	Mouse Mono	ELISA, FC, IF, IHC, IP, WB
RAD51	 14961-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
SATB1	  15400-1-AP	Rabbit Poly	ELISA, IP, WB
SETDB1	  11231-1-AP	Rabbit Poly	ELISA, ChIP, IHC, IP, WB
SIRT2-Specific	  19655-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
SMARCA4	  21634-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
SUMO2/3	10947-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
SUV39H1	  10574-1-AP	Rabbit Poly	ELISA, IP, WB
SUZ12	 20366-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
TOP2A-Specific	  20233-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
TRBP	  15753-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
TRIM9	  10786-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
UBE2E2	  11844-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
UBE2T/HSPC150	  10105-2-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
UBL4A	 14253-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
UBQLN2	 23449-1-AP	Rabbit Poly	ELISA, IF, IHC, WB
UCHL1	 66230-1-Ig	Mouse Mono	ELISA, IF, IHC, WB
UFD1L	  10615-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
URM1	  15285-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
USP1	  14346-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
USP20	  17491-1-AP	Rabbit Poly	ELISA, IHC, IP, WB
USP5	  10473-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
USP9X	  55054-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
WWP1	  13587-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB
XRCC5/Ku80	  16389-1-AP	Rabbit Poly	ELISA, IF, IHC, IP, WB

 This number shows the amount of times our antibody has been cited in a publication.