

DNMT3a Antibody

ALTERNATE NAMES: DNA Methyltransferase 3a

CATALOG #: 6849-25

AMOUNT: 25 µg

HOST/ISOTYPE: Rabbit

IMMUNOGEN: Polyclonal antibody raised in rabbit against human DNMT3A, (DNA methyltransferase 3A), using a KLH-conjugated synthetic peptide corresponding to amino acids 92-106.

FORM: Liquid

FORMULATION: In PBS with 0.05% (W/V) sodium azide and 0.05% ProClin 300.

PURIFICATION: Affinity purified

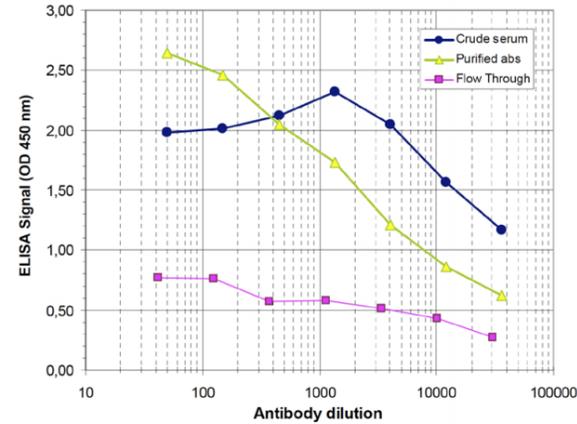
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

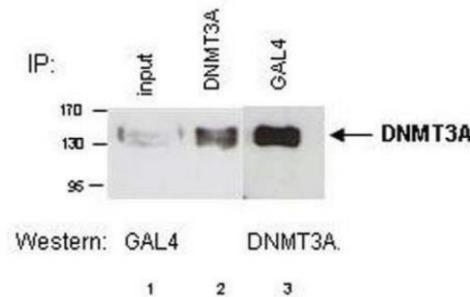
DESCRIPTION: DNMT3A catalyzes the genome wide de novo methylation of CpG residues. DNA methylation on CpG residues by DNMT3A regulates gene expression and is essential for development. DNMT3A is strongly expressed in embryonic stem cells, but low in adult somatic cells. DNA methylation is coordinated with methylation of histones. DNMT3A binds to SETDB1 and HDAC1, and is involved in the repression of transcription from promoters containing an E2F binding site.

APPLICATION: Western Blot: 1:2,500, ELISA: 1:100, IP: 2 µg/IP.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed crude serum and Flow Through in antigen coated wells. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:2,000.



Human embryonic kidney cells (HEK293T) were transiently transfected with an expression vector for GAL4-tagged DNMT3A. Whole cell extracts were immunoprecipitated with 2 µg of antibody. The presence of GAL4-DNMT3A in the non-treated cell extracts and in the immunoprecipitates was demonstrated by western blot analysis with anti-GAL4 antibody (lane 1 and 2 respectively). Alternatively, GAL4-DNMT3A was immunoprecipitated and western blot analysis was performed with the DNMT3A antibody (diluted 1:2,500) (lane 3).

RELATED PRODUCTS:

- DNMT1 Antibody (Cat. No. 3946-100)
- Dnmt2 Antibody (Cat # 3488-100)
- Dnmt2a Antibody (Cat # 3227-100)
- Dnmt2a Antibody (Cat # 3275-100)
- DNA Methyltransferase 1 Monoclonal Antibody (Cat. No. 6110-50)
- DNA Methyltransferase 2 Polyclonal Antibody (Cat. No. 6111-50)
- DNA Methyltransferase 2 Monoclonal Antibody (Cat. No. 6112-50)
- DNA Methyltransferase 3b Monoclonal Antibody (Cat. No. 6114-50)
- DNA Methyltransferase 3a Monoclonal Antibody (Cat. No. 6115-50)

FOR RESEARCH USE ONLY! Not to be used on humans.