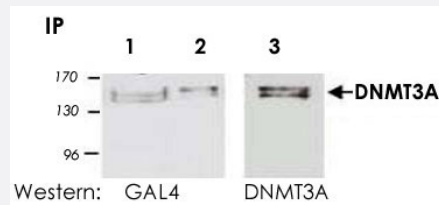


DNMT3A polyclonal antibody

Catalog # PAB14131

Size 50 ug

Applications



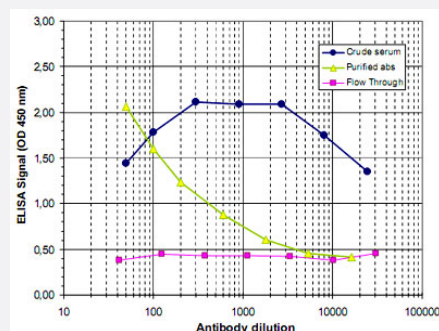
Western Blot

Human embryonic kidney cells (HEK293T) were transiently transfected with an expression vector for GAL4-tagged DNMT3A.

Whole cell extracts were immunoprecipitated with 2 ug of DNMT3A polyclonal antibody (Cat # PAB14131).

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 DNMT3A polyclonal antibody (diluted 1 : 2,000) (Lane 3).



Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of DNMT3A polyclonal antibody (Cat # PAB14131), crude serum and Flow Through in antigen coated wells. By plotting the absorbance against the antibody dilution, the titer of the purified antibody was estimated to be 1 : 400.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of DNMT3A.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to amino acids 107-121 of human DNMT3A.

Host

Rabbit

Reactivity

Human

Form	Liquid
Recommend Usage	ELISA (1:50) Western Blot (1:2000) Immunoprecipitation (2 ug/IP) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide, 0.05% proclin 300)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Human embryonic kidney cells (HEK293T) were transiently transfected with an expression vector for GAL4-tagged DNMT3A. Whole cell extracts were immunoprecipitated with 2 ug of DNMT3A polyclonal antibody (Cat # PAB14131).

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 DNMT3A polyclonal antibody (diluted 1 : 2,000) (Lane 3).

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of DNMT3A polyclonal antibody (Cat # PAB14131), crude serum and Flow Through in antigen coated wells. By plotting the absorbance against the antibody dilution, the titer of the purified antibody was estimated to be 1 : 400.

Gene Info — DNMT3A

Entrez GeneID	1788
Protein Accession#	Q9Y6K1
Gene Name	DNMT3A
Gene Alias	DNMT3A2, M.HsaIIIA
Gene Description	DNA (cytosine-5-)-methyltransferase 3 alpha
Omim ID	602769

Gene Ontology

[Hyperlink](#)

Gene Summary

CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

DNA MTase HsalllA|DNA cytosine methyltransferase 3 alpha|DNA cytosine methyltransferase 3A2|DNA methyltransferase HsalllA|OTTHUMP00000120005|OTTHUMP00000120006

Pathway

- [Cysteine and methionine metabolism](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Spinal Dysraphism](#)
- [Stomach Neoplasms](#)