

## ARG64495 anti-Dnmt1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes DNMT1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Dnmt1
Species	Human
Immunogen	C-RFESPPKTQPTEDN
Conjugation	Un-conjugated
Alternate Names	CXXC-type zinc finger protein 9; DNA; Dnmt1; cytosine-5; ADCADN; AIM; DNMT; M.Hsal; MCMT; HSN1E; EC 2.1.1.37; DNA methyltransferase Hsal; CXXC9; DNA MTase Hsal

### Application Instructions

Application table	Application	Dilution
	IHC-P	3 - 6 µg/ml
	WB	0.5 - 1.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links

[GeneID: 1786 Human](#)

[Swiss-port # P26358 Human](#)

Background

DNA (cytosine-5-)-methyltransferase 1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Research Area

Gene Regulation antibody

Calculated Mw

183 kDa

PTM

Sumoylated; sumoylation increases activity.

Acetylation on multiple lysines, mainly by KAT2B/PCAF, regulates cell cycle G(2)/M transition.

Deacetylation of Lys-1349 and Lys-1415 by SIRT1 increases methyltransferase activity.

Phosphorylation of Ser-154 by CDKs is important for enzymatic activity and protein stability.

Phosphorylation of Ser-143 by AKT1 prevents methylation by SETD7 thereby increasing DNMT1 stability.

Methylation at Lys-142 by SETD7 promotes DNMT1 proteasomal degradation.

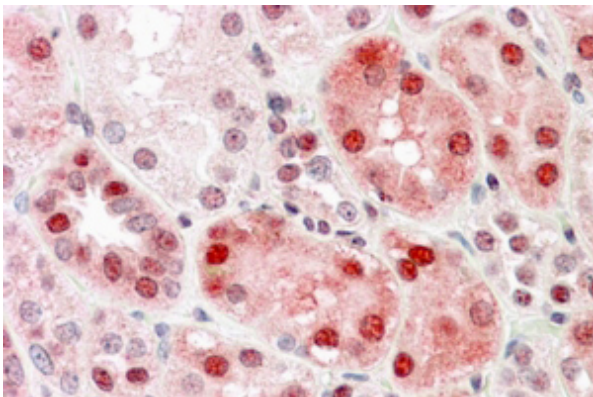
Ubiquitinated by UHRF1; interaction with USP7 counteracts ubiquitination by UHRF1 by promoting deubiquitination and preventing degradation by the proteasome.

## Images



ARG64495 anti-DNMT1 antibody WB image

Western Blot: Jurkat cell lysate (35 µg protein in RIPA buffer) stained with ARG64495 anti-DNMT1 antibody at 0.5 µg/ml dilution.



ARG64495 anti-DNMT1 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Kidney. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG64495 anti-DNMT1 antibody at 3.8 µg/ml dilution followed by AP-staining.