

Rabbit anti-Human DNMT3A Polyclonal Antibody | anti-DNMT3A antibody

DNMT3A Antibody (Center R478)

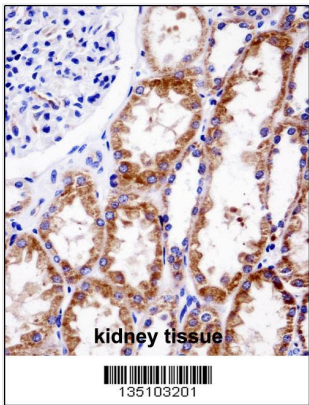
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290665	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

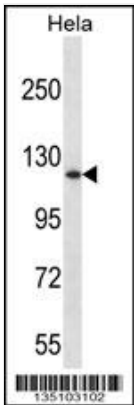
DNMT3A; Polyclonal Antibody; DNMT3A Antibody (Center R478); DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; DNA methyltransferase HsaIIIA; DNA MTase HsaIIIA; MHsaIIIA; anti-DNMT3A antibody

PRODUCT SPECIFICATIONS

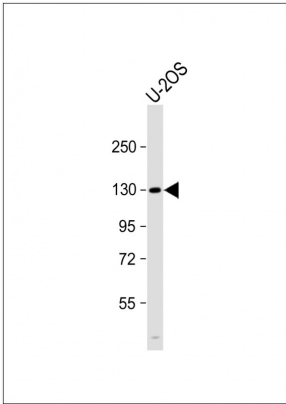
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This DNMT3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 457-486 amino acids from the Central region of human DNMT3A.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	912
Applicable Applications for anti-DNMT3A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Subtitle	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Cellular Location	Nucleus. Cytoplasm. Note=Accumulates in the major satellite repeats at pericentric heterochromatin.
Tissue Location	Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung.
Antigen Region	457-486 aa
Antigen Type	Synthetic Peptide
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
DNMT3A Antibody (Center R478WMutant) (AP14633c)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DNMT3A Antibody (Center R478WMutant) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
DNMT3A Antibody (Center R478) western blot analysis in HeLa cell line lysates (35ug/lane).This demonstrates the DNMT3A antibody detected the DNMT3A protein (arrow).



WB (Western Blot)
Anti-DNMT3A Antibody (R478WMutant) at 1:1000 dilution + U-2OS whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 102 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-DNMT3A antibody	Description: 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]. Background: Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal and maternal imprinting. Required for methylation of most imprinted loci in germ cells. Acts as a transcriptional corepressor for ZBTB18. Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites. Can actively repress transcription through the recruitment of HDAC activity.
Product Categories/Family for anti-DNMT3A antibody	Primary Antibodies

References	Holz-Schietinger, C., et al. J. Biol. Chem. 285 (38):29091-29100 (2010). Kelemen, L.E., et al. Cancer Epidemiol. Biomarkers Prev. 19 (7):1822-1830 (2010). Park, C.W., et al. J Cardiovasc Transl Res 3 (3):290-295 (2010). Haggarty, P., et al. PLoS ONE 5 (6), E11329 (2010). Zhao, Z., et al. J. Biomed. Biotechnol. 2010, 737535 (2010).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28559069
NCBI GeneID	1788
NCBI Accession #	NP_783328.1; NP_715640.2
NCBI GenBank Nucleotide #	NM_175629.2
UniProt Accession #	Q9Y6K1; Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
Molecular Weight	101858 Da
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A isoform a
NCBI Official Synonym Full Names	DNA (cytosine-5-)-methyltransferase 3 alpha
NCBI Official Symbol	DNMT3A
NCBI Official Synonym Symbols	TBRS; DNMT3A2; M.HsaIIIA
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3A
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3A
UniProt Gene Name	DNMT3A
UniProt Synonym Gene Names	Dnmt3a; DNA MTase HsaIIIA; M.HsaIIIA
UniProt Entry Name	DNM3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.