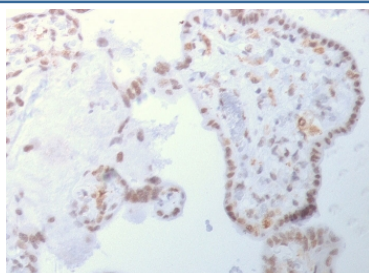


## Dnmt3a Antibody [clone PCRP-DNMT3A-1E2] (V3827)

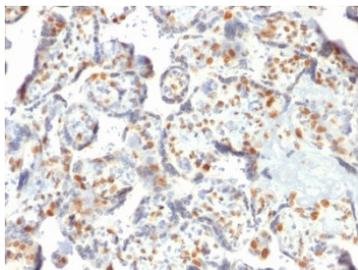
Catalog No.	Formulation	Size
V3827-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3827-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3827SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	PCRP-DNMT3A-1E2
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	Q16655
<b>Localization</b>	Nuclear
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
<b>Limitations</b>	This Dnmt3a antibody is available for research use only.



IHC testing of FFPE human placenta with Dnmt3a antibody. Required HIER: boil sections in 1mM EDTA, pH 9, for 10-20 min and allow to cool before testing.

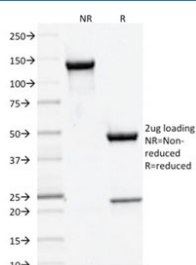


IHC testing of FFPE human placenta with Dnmt3a antibody. Required HIER: boil sections in 1mM EDTA, pH 9, for 10-20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Dnmt3a antibody. These results demonstrate the foremost specificity of the PCRP-DNMT3A-1E2 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Dnmt3a antibody as confirmation of integrity and purity.

## Description

DNMT3A is 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.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Dnmt3a antibody to be titrated up or down for optimal performance.

## Immunogen

Recombinant full length human protein was used as the immunogen for this Dnmt3a antibody.

## Storage

Store the Dnmt3a antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

