

## Rabbit anti-Human DNA (cytosine-5) methyltransferase3A Polyclonal Antibody | anti-DNMT3A antibody

Rabbit anti-human DNA (cytosine-5) methyltransferase3A polyclonal Antibody

|                               |                       |                            |                                                    |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA229402</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------|

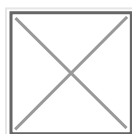
### PRODUCT SYNONYMS

DNA (cytosine-5) methyltransferase3A; Polyclonal Antibody; Rabbit anti-human DNA (cytosine-5) methyltransferase3A polyclonal Antibody; DNA methyltransferase HsaIIIa; DNMT3A; anti-DNMT3A antibody

### PRODUCT SPECIFICATIONS

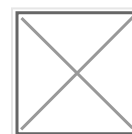
|                                                  |                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                         |
| Reactivity                                       | Human                                                                                                          |
| Clonality                                        | Polyclonal                                                                                                     |
| Isotype                                          | IgG                                                                                                            |
| Purity/Purification                              | Caprylic Acid Ammonium Sulfate Precipitation purified                                                          |
| Form/Format                                      | Liquid                                                                                                         |
| Sequence Length                                  | 912                                                                                                            |
| Applicable Applications for anti-DNMT3A antibody | IHC (Immunohistochemistry), ELISA                                                                              |
| Immunogen                                        | Recombinant human DNA (cytosine-5)-methyltransferase 3A protein                                                |
| Conjugation                                      | Non-conjugated                                                                                                 |
| Storage Buffer                                   | Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                                 |
| Santa Cruz Alternative                           | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-10231 / sc-10232 / sc-10234 / sc-20703 |
| Preparation and Storage                          | Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.                       |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent analysis of HepG2 cells using AAA229402 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse liver at dilution of 1:100

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-DNMT3A antibody | <p>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 ZNF238. Can actively repress transcription through the recruitment of HDAC activity</p> <p>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.</p> |
| Product Categories/Family for anti-DNMT3A antibody   | Epigenetics and Nuclear Signaling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | 12751473                                        |
| NCBI GeneID                      | 1788                                            |
| NCBI Accession #                 | NP_072046.2                                     |
| NCBI GenBank Nucleotide #        | NM_022552.4                                     |
| UniProt Accession #              | Q9Y6K1; Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8  |
| Molecular Weight                 | 16,866 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    | TBR5; 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.