bs-0497R **[Primary Antibody]**

Dnmt3a Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1788 **SWISS:** Q9Y6K1

Target: Dnmt3a

Immunogen: KLH conjugated synthetic peptide derived from human Dnmt3a: 26-100/912.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. [provided by RefSeq, Mar 2016]

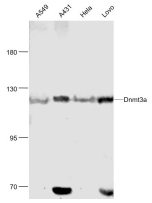
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse, Rat (predicted: Cow)

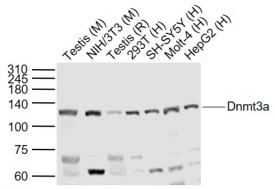
Predicted MW.: 100 kDa

Subcellular Location: Cytoplasm ,Nucleus

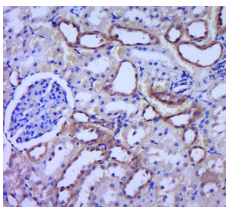
VALIDATION IMAGES



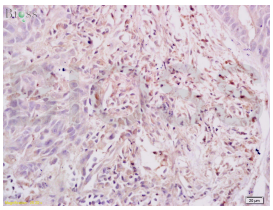
Sample: A549(Human) Cell Lysate at 30 ug A431(Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug Lovo(Human) Cell Lysate at 30 ug Primary: Anti-Dnmt3a (bs-0497R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 120 kD



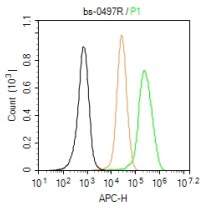
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 3: Testis (Rat) Lysate at 40 ug Lane 4: 293T (Human) Cell Lysate at 30 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 6: Molt-4 (Human) Cell Lysate at 30 ug Lane 7: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-Dnmt3a (bs-0497R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 120 kD Observed band size: 120 kD



Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Dnmt3a) Polyclonal Antibody, Unconjugated (bs-0497R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat



Blank control (Black line): U87MG (Black). Primary Antibody (green line): Rabbit Anti-Dnmt3a antibody (bs-0497R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg

serum,C-0005) at 37°C for 20 min; Incubation: Anti-Dnmt3a Polyclonal Antibody, Unconjugated(bs-0497R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

/test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.739]** Ai Wei. et al. Inhibition of DNA methylation derepresses PPARγ and attenuates pulmonary fibrosis. 2021 Aug 11 WB,IHC ;Mouse. 34378791
- **[IF=8.401]** Dr. xingren Chen. et al. Reversal of epigenetic PPARγ suppression by diacerein alleviates oxidative stress and osteoarthritis in mice. 2022 Feb 24 WB ;Mouse. 10.1089/ars.2021.0219
- **[IF=5.714]** Li D et al. Oxygenated Polycyclic aromatic hydrocarbons (Oxy-PAHs) facilitate lung cancer metastasis by epigenetically regulating the epithelial-to-mesenchymal transition (EMT). Environ Pollut. 2019 Sep 17;255(Pt 2):113261. WB ;Human. 31580991
- **[IF=5.2]** Zhao, Qian, et al. "Prenatal Cocaine Exposure Impairs Cognitive Function of Progeny Via Insulin Growth Factor II Epigenetic Regulation." Neurobiology of Disease (2015). WB ;="Mouse". 26054440
- **[IF=3.85]** Wu, Yuting, et al. "Methylation of Septin9 mediated by DNMT3a enhances hepatic stellate cells activation and liver fibrogenesis." Toxicology and Applied Pharmacology 315 (2017): 35-49. WB ;="Mouse". 27939986