

Product datasheet for **TA307586**

DNMT1 Rabbit Monoclonal Antibody [Clone ID: EPR3521(2)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EPR3521(2)
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000 - 1:10000; IHC-P: 1:250 - 1:500; FC: 1:10 - 1:100
Reactivity:	Human (Does not react with: Mouse, Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human Dnmt1 was used as an immunogen.
Formulation:	pH: 7.40Preservative: 0.01% Sodium azide; Constituents: 50% Glycerol, 0.05% BSA
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA (cytosine-5-)-methyltransferase 1
Database Link:	NP_001124295 Entrez Gene 13433 Mouse Entrez Gene 84350 Rat Entrez Gene 1786 Human P26358

Background: Dnmt1 is one of three families of enzymes (Dnmt1, Dnmt2, Dnmt3 (a and b)) that have a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Abnormal methylation patterns are associated with certain human tumors and developmental abnormalities (1). Dnmt1 is responsible for maintenance of the DNA methylation pattern after DNA replication. Dnmt1 is a large protein and can be subdivided into an N- and a C-terminal part. The C-terminal domain harbors the catalytic center. The N-terminal part of the enzyme comprises several individual domains, and plays a role in intracellular targeting and regulation of the enzyme's activity. Dnmt1 shows a preference for hemimethylated CG sites and the specificity of Dnmt1 for hemimethylated target sites is a key property for that function (2).

Synonyms: ADCADN; AIM; CXXC9; DNMT; HSN1E; m.HsaI; MCMT



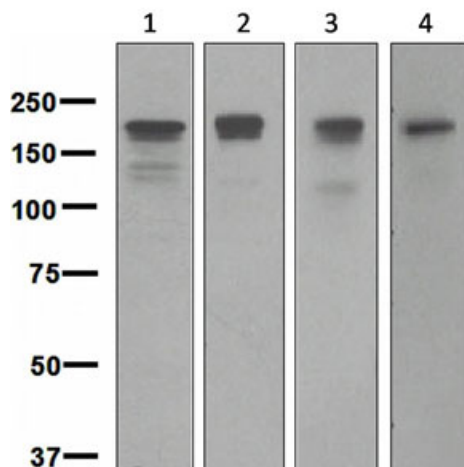
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Note: Is unsuitable for ICC/IF or IP.

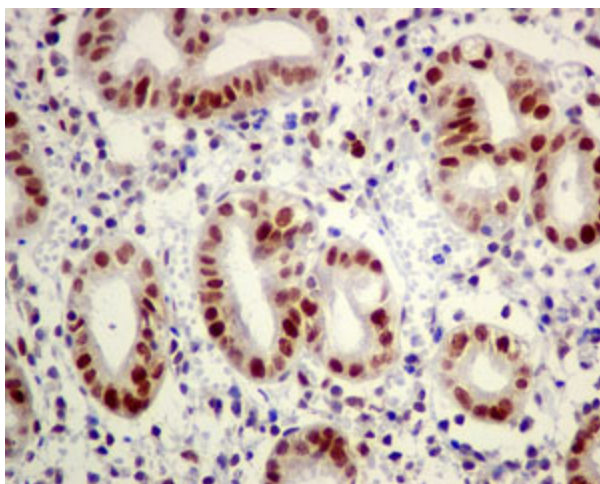
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

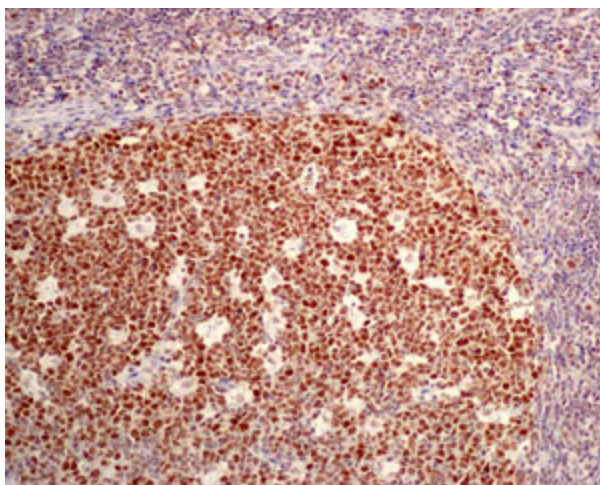
Product images:



Western blot - Anti-Dnmt1 antibody [EPR3521 (2)]; All lanes : Anti-Dnmt1 antibody [EPR3521 (2)] at 1/1000 dilution. Lane 1 : Jurkat cell lysates. Lane 2 : 293T cell lysates. Lane 3 : HeLa cell lysates. Lane 4 : HuT-78 cell lysates. Lysates/proteins at 10 ug per lane. Secondary. HRP labelled goat anti-rabbit at 1/2000 dilution. Predicted band size : 183 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt1 antibody [EPR3521 (2)]; Immunohistochemical analysis of paraffin embedded Human stomach tissue labelled with TA307586 at 1/250 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dnmt1 antibody [EPR3521 (2)]; Immunohistochemical analysis of paraffin embedded Human tonsil tissue labelled with TA307586 at 1/250 dilution.