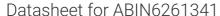
antibodies -online.com







anti-DNMT1 antibody (Internal Region)



Images



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Quantity:	100 μL	
Target:	DNMT1	
Binding Specificity:	Internal Region	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This DNMT1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)	
Product Details		
Immunogen:	A synthesized peptide derived from human Dnmt1, corresponding to a region within the internal amino acids.	
Isotype:	IgG	
Specificity:	Dnmt1 Antibody detects endogenous levels of total Dnmt1.	
Predicted Reactivity:	Bovine,Horse,Sheep	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).	
Target Details		
Target:	DNMT1	

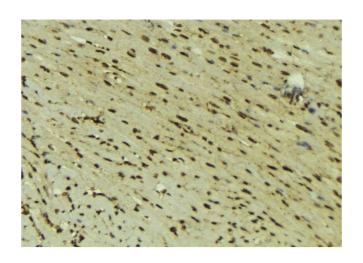
Target Details

Alternative Name:	DNMT1 (DNMT1 Products)		
Background:	Description: Methylates CpG residues. Preferentially methylates hemimethylated DNA.		
	Associates with DNA replication sites in S phase maintaining the methylation pattern in the		
	newly synthesized strand, that is essential for epigenetic inheritance. Associates with		
	chromatin during G2 and M phases to maintain DNA methylation independently of replication. I		
	is responsible for maintaining methylation patterns established in development. DNA		
	methylation is coordinated with methylation of histones. Mediates transcriptional repression by		
	direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS		
	involved in activation of BAG1 gene expression by modulating dimethylation of promoter		
	histone H3 at H3K4 and H3K9. Probably forms a corepressor complex required for activated		
	KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor		
	genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells		
	(PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in		
	undifferentiated embryonic stem cells (ESCs) (PubMed:24623306). Associates at promoter		
	regions of tumor suppressor genes (TSGs) leading to their gene silencing (PubMed:24623306).		
	Promotes tumor growth (PubMed:24623306).		
	Gene: DNMT1		
Molecular Weight:	183kDa		
Gene ID:	1786		
UniProt:	P26358		
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2		
	Infection		
Application Details			
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:400, ELISA(peptide) 1:20000-1:40000		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
	1 mg/mL		
Concentration:	i ing/inc		
Concentration: Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %		

Handling

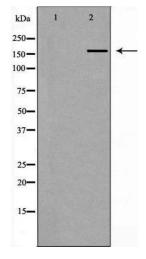
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

Images



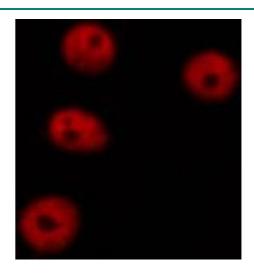
Immunohistochemistry

Image 1. ABIN6277618 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22¡ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary



Western Blotting

Image 2. Western blot analysis of extracts of hela, using Dnmt1 antibody. The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 3. F7376 staining HEPG2 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37_iaC. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37_iaC. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibod