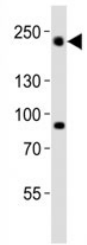
Dnmt1 Antibody (F52797)

Catalog No.	Formulation	Size
F52797-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52797-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P26358
Applications	Western Blot : 1:1000
Limitations	This Dnmt1 antibody is available for research use only.



Western blot analysis of lysate from HeLa cell line using Dnmt1 antibody diluted at 1:1000. Predicted molecular weight: 180-200 kDa

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. It 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. [UniProt]

This antibody can be compared with our DNMT1 Antibody for consistent detection of DNMT1 across DNA methylation and epigenetic regulation studies.

Application Notes

Titration of the Dnmt1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Dnmt1 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 363-396 amino acids from the N-terminal region of the human protein.

Storage

Aliquot the Dnmt1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.