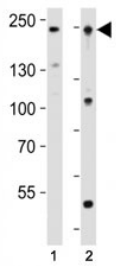
Dnmt1 Antibody (F53105)

Catalog No.	Formulation	Size
F53105-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53105-0.08ML	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, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P13864
Applications	Western blot: 1:500-1000
Limitations	This Dnmt1 antibody is available for research use only.



Western blot analysis of lysate from human K562 and mouse F9 cell line using Dnmt1 antibody at 1:1000. Predicted molecular weight: 180-200 kDa

Description

Methylation of DNA at cytosine residues plays an important role in regulation of gene expression, genomic imprinting and is essential for mammalian development. Hypermethylation of CpG islands in tumor suppressor genes or hypomethylation of bulk genomic DNA may be linked with development of cancer. Three families of mammalian DNA methyltransferase genes have been identified which include Dnmt1, Dnmt2 and Dnmt3. Dnmt1 is constitutively expressed in proliferating cells and inactivation of this gene causes global demethylation of genomic DNA and embryonic lethality.

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

A portion of amino acids 881-914 from the mouse protein was used as the immungen for the Dnmt1 antibody.

Storage

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

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