

DNMT1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Rat
Published Species	Mouse
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues A(171) K G P A K R K P Q E E S E(185) of human Dnmt1.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325912

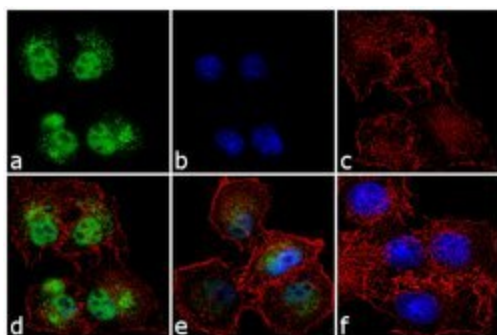
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2 µg/mL	-
Western Blot (WB)	2 µg/mL	1 Publication

Product Specific Information

PA1-880 detects DNA methyltransferase 1 (Dnmt1) from HeLa cell nuclear extracts.

PA1-880 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~180 kDa protein representing Dnmt1 from HeLa cell nuclear extract. A doublet between 40 and 45 kDa is also seen on Western blots using this antibody.

The PA1-880 immunogen is a synthetic peptide corresponding to residues A(171) K G P A K R K P Q E E S E(185) of human Dnmt1. PA1-880 immunizing peptide (Cat. # PEP-136) is available for use in neutralization and control experiments.



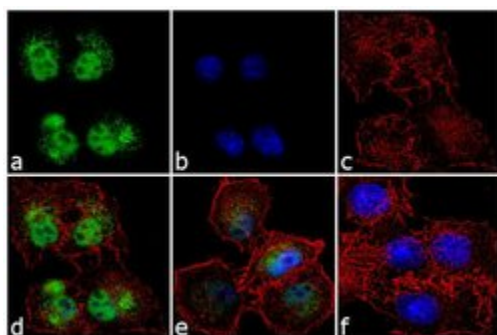
DNMT1 Antibody (PA1-880)

Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of DNMT1 using DNMT1 Polyclonal Antibody (Product # PA1-880), shows translocation of DNMT1 from cytoplasm to the nucleus of PANC-1 cells upon treatment with Interleukin-6. Cell treatment validation info.

Product Images For DNMT1 Polyclonal Antibody

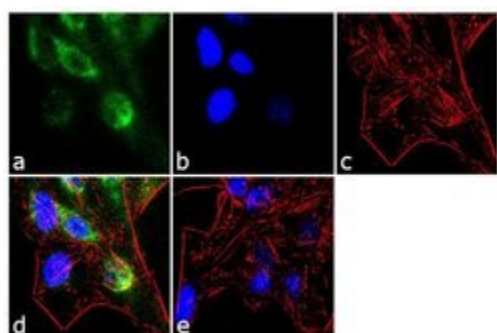
DNMT1 Antibody (PA1-880) in IF

Immunofluorescent analysis of DNMT1/DNA Methyltransferase 1 was performed using 70% confluent log phase PANC-1 cells treated with 100 ng of Interleukin-6 for 30 minutes. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with DNMT1/DNA Methyltransferase 1 Rabbit Polyclonal Antibody (Product # PA1-880) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing predominantly nuclear localization. Panel e is untreated cell with predominantly cytoplasmic signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



DNMT1 Antibody (PA1-880) in IF

Immunofluorescent analysis of DNMT1/DNA Methyltransferase 1 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with DNMT1/DNA Methyltransferase 1 Rabbit Polyclonal Antibody (Product # PA1-880) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing predominantly cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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Western Blot (1)

Cell growth and differentiation : the molecular biology journal of the American Association for Cancer Research

Expression of an alternative Dnmt1 isoform during muscle differentiation.

"PA1-880 was used in western blot to investigate a DNA methyltransferase 1 isoform's expression level during the differentiation of muscle"

Authors: Aguirre-Arteta AM, Grunewald I, Cardoso MC, Leonhardt H

Species
Mouse

Dilution
1:500

Year
2000

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