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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-DNMT1 Antibody [4G11-C7]

Mouse Anti-Human DNMT1 Monoclonal IgG1 Kappa
Catalog No. SMC-201



Discovery through partnership | Excellence through quality

Overview

Product Name

DNMT1 Antibody

Description

Mouse Anti-Human DNMT1 Monoclonal IgG1 Kappa

Species Reactivity

Human, Mouse, Fish, Zebrafish (Danio rerio)

Applications

WB, IHC, IP, ChIP

Antibody Dilution

WB (1:500), IHC (1:500); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Raised against a partial protein corresponding to amino acids 620-950 of human DNMT1

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

4G11-C7

Isotype

IgG1 Kappa

Specificity

Detects ~180kDa. It will cross-react with mouse DNMT1.

Cite This Product

Mouse Anti-Human DNMT1 Monoclonal, Clone 4G11-C7 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-201)

Certificate Of Analysis

2 µg/ml of SMC-201 was sufficient for detection of Dnmt1 in 10 µg of mouse ES cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

DNA Mtase Antibody, DNMT Antibody, MCMT Antibody, DNA methyltransferase 1 Antibody, AIM Antibody, CXXC9 Antibody, DNMT Antibody, DNA (cytosine-5)-methyltransferase 1 Antibody, CXXC-type zinc finger protein 9 Antibody, DNA methyltransferase Hsal Antibody

Research Areas

Cell Signaling, Organelle Markers, Post-translational Modifications

Cellular Localization

Nucleus

Accession Number

NP_001370

Gene ID

1786

Swiss Prot

P26358

Scientific Background

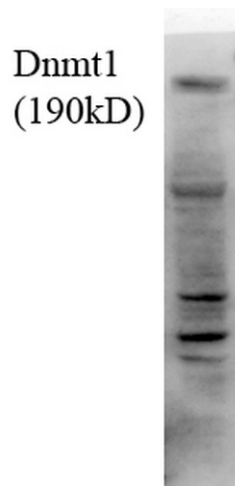
Methylation of DNA at cytosine residues plays an important role in regulation of gene expression, genomic imprinting and is essential for mammalian development. Hypermethylation of CpG islands in tumor suppressor genes or hypomethylation of bulk genomic DNA may be linked with development of cancer. To date, 3 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. Dnmt2 is expressed at low levels in adult tissues and its inactivation does not affect DNA methylation or maintenance of methylation. The Dnmt3 family members, Dnmt3a and Dnmt3b, are strongly expressed in ES cells but their expression is down regulated in differentiating ES cells and is low in adult somatic tissue. Dnmt1 co-purifies with the retinoblastoma (Rb) tumour suppressor gene product, E2F1, and HDAC1. Dnmt1 also cooperates with Rb to repress transcription from promoters containing E2F-binding sites suggesting a link between DNA

methylation, histone deacetylase and sequence-specific DNA binding activity, as well as a growth-regulatory pathway that is disrupted in nearly all cancer cells (1-6).

References

1. Bestor T., et al.(1988) J.Mol. Biol. 203: 971-983.
 2. Yen R.W., Vertino P.M., Nelkin B.D., et al. (1992) Nucl. Acids Res. 20: 2287-2291.
 3. Xie S., et al. (1999) Gene 236: 87-95.
 4. Okano M., Bell D.W., Haber D.A. and Li E. (1999) Cell 99: 247-257.
 5. Reik W. et al. (1999) J. Nat. Genet 23: 380-382.
 6. Robertson K.D., et al. (2000) Nat Genet 25(3): 338-342.
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Product Images



Western Blot analysis of Human H1299 cell lysate showing detection of DNMT1 protein using Mouse Anti-DNMT1 Monoclonal Antibody, Clone 4G11-C7 (SMC-201). Primary Antibody: Mouse Anti-DNMT1 Monoclonal Antibody (SMC-201) at 1:1000.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.