Dnmt1 Conjugated Antibody

Catalog No: #C49391

Package Size: #C49391-AF350 100ul #C49391-AF405 100ul #C49391-AF488 100ul #C49391-AF555 100ul #C49391-AF594 100ul #C49391-AF647 100ul #C49391-AF680 100ul #C49391-AF750 100ul #C49391-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Dnmt1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ADCADN antibody AIM antibody CXXC finger protein 9 antibody CXXC-type zinc finger protein 9 antibody CXXC9 antibody DNA (cytosine 5) methyltransferase 1 antibody DNA (cytosine-5)-methyltransferase 1 antibody DNA methyltransferase 1 antibody DNA methyltransferase HsaI antibody DNA methyltransferase M.HsaI. antibody DNA MTase antibody DNA MTase HsaI antibody DNMT 1 antibody DNMT antibody Dnmt1 antibody DNMT1_HUMAN antibody Dnmt1o antibody FLJ16293 antibody HSN1E antibody M.HsaI antibody MCMT antibody Met1 antibody MGC104992 antibody mMmul antibody MommeD2 antibody
Accession No.	Swiss-Prot#:P26358
Uniprot	P26358
GeneID	1786;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	183 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Methylation at the 5'-position of cytosine is the only known naturally occurring covalent modification of the mammalian genome. DNA methylation requires the enzymatic activity of DNA 5-cytosine methyltransferase (Dnmt) proteins, which catalyze the transfer of a methyl group from S-adenosyl methionine to the 5'-position of cytosines residing in the dinucleotide CpG motif, and this methylation results in transcriptional repression of the target gene. The Dnmt enzymes are encoded by independent genes. Dnmt1 is the most abundant, and it preferentially methylates hemimethylated DNA and coordinates gene expression during development. Additional mammalian Dnmt proteins include Dnmt2 and Dnmt3. Dnmt2 lacks the large N-terminal regulator domain of Dnmt1, is expressed at substantially lower levels in adult tissues, and is likely involved in methylating newly integrated retroviral DNA. Dnmt3a and Dnmt3b are encoded by two distinct genes, but both are abundantly expressed in embryonic stem cells, where they also methylate CpG motifs on DNA.

Note: This product is for in vitro research use only