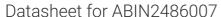
antibodies - online.com







anti-DNMT1 antibody (AA 637-650) (HRP)

Images



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| Quantity: | 100 μg |
|----------------------|---|
| Target: | DNMT1 |
| Binding Specificity: | AA 637-650 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This DNMT1 antibody is conjugated to HRP |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Chromatin Immunoprecipitation (ChIP) |

Product Details

| Immunogen: | Raised against a synthetic peptide corresponding to amino acids 637-650 of human DNMT1 |
|-------------------|--|
| Clone: | 60B1220-1 |
| Isotype: | IgG1 kappa |
| Specificity: | Detects ~180 kDa. It will cross-react with mouse DNMT1. |
| Cross-Reactivity: | Fish, Human, Mouse, Zebrafish (Danio rerio) |
| Purification: | Protein G Purified |

Target Details

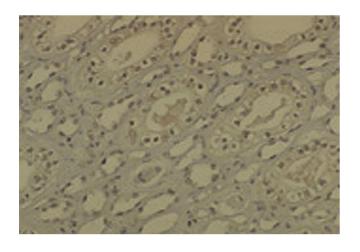
Target Details

| Alternative Name: | DNMT1 (DNMT1 Products) |
|---------------------|--|
| 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). |
| Gene ID: | 1786 |
| NCBI Accession: | NP_001370 |
| UniProt: | P26358 |
| Pathways: | SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | • IHC (1:1000) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | 2 μg/ml of ABIN2486007 was sufficient for detection of Dnmt1 in 10 μg of mouse ES cell lysat |
| | by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary |
| | antibody. |
| Restrictions: | For Research Use only |
| | |

Handling

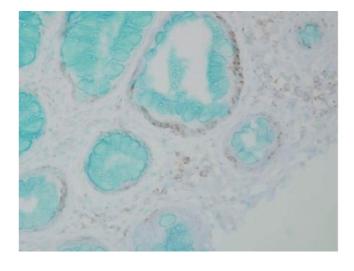
| Format: | Liquid |
|--------------------|--|
| Concentration: | 1 mg/mL |
| Buffer: | PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Conjugated antibodies should be stored at 4°C |

Images



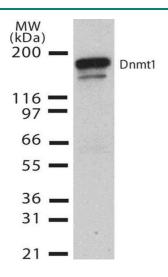
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-DNMT1 Monoclonal Antibody, Clone 60B1220.1 . Tissue: medullar kidney tissue. Species: Mouse. Primary Antibody: Mouse Anti-DNMT1 Monoclonal Antibody at 1:1000. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown). Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-DNMT1 Monoclonal Antibody, Clone 60B1220.1 . Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-DNMT1 Monoclonal Antibody at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Magnification: 40x.



Western Blotting

Image 3. Western Blot analysis of Human H1299 cell lysate showing detection of DNMT1 protein using Mouse Anti-DNMT1 Monoclonal Antibody, Clone 60B1220.1 . Primary Antibody: Mouse Anti-DNMT1 Monoclonal Antibody at 1:1000.