

NSD1 Monoclonal Antibody

Catalog No: YM1065

Reactivity: Human

Applications: WB

Target: NSD1

Fields: >>Lysine degradation;>>Metabolic pathways

Q96L73

O88491

Gene Name: NSD1

Protein Name: Histone-lysine N-methyltransferase H3 lysine-36 and H4 lysine-20 specific

Human Gene Id: 64324

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Immunogen: Purified recombinant human NSD1 protein fragments expressed in E.coli.

Specificity: NSD1 Monoclonal Antibody detects endogenous levels of NSD1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution: WB 1:1000 - 1:2000. Not yet tested in other applications.

Purification : Affinity purification

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 297kD

1/3



Cell Pathway : Lysine degradation;

Background: This gene encodes a protein containing a SET domain, 2 LXXLL motifs, 3

nuclear translocation signals (NLSs), 4 plant homeodomain (PHD) finger regions, and a proline-rich region. The encoded protein enhances androgen receptor (AR) transactivation, and this enhancement can be increased further in the presence of other androgen receptor associated coregulators. This protein may act as a nucleus-localized, basic transcriptional factor and also as a bifunctional transcriptional regulator. Mutations of this gene have been associated with Sotos syndrome and Weaver syndrome. One version of childhood acute myeloid leukemia is the result of a cryptic translocation with the breakpoints occurring within nuclear receptor-binding Su-var, enhancer of zeste, and trithorax domain protein 1 on chromosome 5 and nucleoporin, 98-kd on chromosome 11. Two transcript variants encoding distinct isofo

transcript variants encoding distinct isone

Function: catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-

homocysteine + histone N(6)-methyl-L-lysine., disease: A chromosomal aberration involving NSD1 is found in an adult form of myelodysplastic syndrome (MDS).

Insertion of NUP98 into NSD1 generates a NUP98-NSD1 fusion

product., disease: A chromosomal aberration involving NSD1 is found in childhood

acute myeloid leukemia. Translocation t(5;11)(q35;p15.5) with

NUP98., disease: Defects in NSD1 are a cause of Beckwith-Wiedemann syndrome

(BWS) [MIM:130650]. BWS is a genetically heterogeneous disorder characterized by anterior abdominal wall defects including exomphalos

 $(omphalocele), pre-\ and\ postnatal\ overgrowth,\ and\ macroglossia.\ Additional\ less$

frequent complications include specific developmental defects and a

predisposition to embryonal tumors., disease: Defects in NSD1 are the cause of

Sotos syndrome [MIM:117550]; also kn

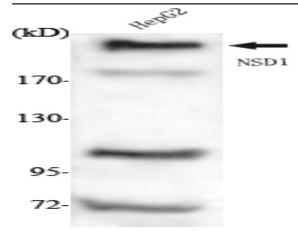
Subcellular Location:

Nucleus. Chromosome.

Expression: Expressed in the fetal/adult brain, kidney, skeletal muscle, spleen, and the

thymus, and faintly in the lung.

Products Images



Western Blot analysis using NSD1 Monoclonal Antibody against HepG2 cell lysate .