

Recombinant NSD3 Monoclonal Antibody

catalog number: **AN302026L**

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

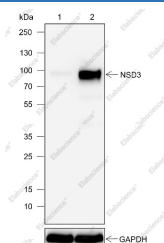
Reactivity	Human
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331647
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:1000-1:3000
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Data



Western Blot with NSD3 Monoclonal Antibody at dilution of 1:3000. Lane 1: TH-29 (Low expression), Lane 2: MOLT-4

Observed-MW:90 kDa

Calculated-MW:162 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Wolf-Hirschhorn syndrome candidate 1-like protein 1 (WHSC1L1), also known as histone-lysine N-methyltransferase NSD3, is a SET domaincontaining histone methyltransferase protein that methylates histone H3 on lysine 4 (H3K4me) and lysine 27 (H3K27me) (1). Methylation of histone H3 lysine 4 is associated with transcriptional activation, while methylation of histone H3 lysine 27 is associated with transcriptional repression. WHSC1L1 can function as an oncogene or a tumor suppressor protein, depending on cell context, and has been shown to regulate expression of a number of genes associated with cell cycle (2). Amplification and/or increased expression of WHSC1L1 in breast, lung, and liver cancer increases growth and survival, and is associated with poor prognosis (2-5). In addition, the NSD3 gene has been found fused with the nuclear pore complex protein NUP98 gene in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL), and fused with the NUT gene in NUT midline carcinomas (6-10).

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Rev. V1.1