

Anti-NSD3 Antibody Picoband™

Catalog Number: A32443-1

About NSD3

Histone-lysine N-methyltransferase NSD3 is an enzyme that in humans is encoded by the WHSC1L1 gene. This gene is related to the Wolf-Hirschhorn syndrome candidate-1 gene and encodes a protein with PWWP (proline-tryptophan-tryptophan-proline) domains. This protein methylates histone H3 at lysine residues 4 and 27, which represses gene transcription. Two alternatively spliced variants have been described.

Overview

Product Name	Anti-NSD3 Antibody Picoband™
Reactive Species	Human, Monkey
Description	Boster Bio Anti-NSD3 Antibody Picoband™ catalog # A32443-1. Tested in ELISA, WB applications. This antibody reacts with Human, Monkey.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9BZ95

Technical Details

Immunogen	E.coli-derived human NSD3 recombinant protein (Position: Q46-K1425).
Predicted Reactive Species	Hepatitis Virus
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 ug/ml, Human, Monkey

Direct ELISA, 0.1-0.5 ug/ml, Human

Anti-NSD3 Antibody Picoband™ (A32443-1) Images

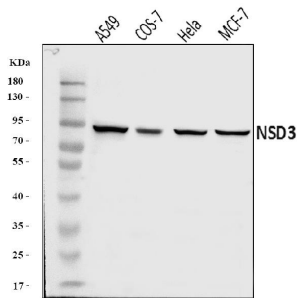


Figure 1. Western blot analysis of NSD3 using anti-NSD3 antibody (A32443-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,
Lane 2: monkey COS-7 whole cell lysates,
Lane 3: human HeLa whole cell lysates,
Lane 4: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NSD3 antigen affinity purified polyclonal antibody (Catalog # A32443-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NSD3 at approximately 90 kDa. The expected band size for NSD3 is at 90 kDa.

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