BOSTER BIOLOGICAL TECHNOLOGY
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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.

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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. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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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	Western blot, 0.25-0.5 ug/ml, Human, Monkey ELISA, 0.1-0.5 ug/ml, -

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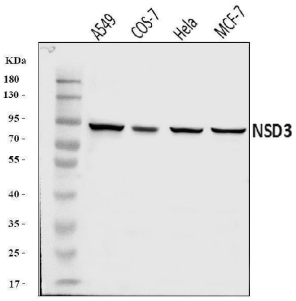
Anti-NSD3 Antibody Picoband® (A32443-1) Images



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.

Anti-NSD3 Antibody

For Research Use Only. Not for use in diagnostic procedures.