BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NSUN2 Antibody (Monoclonal, 34N90)

Catalog Number: M03878

About NSUN2

NOP2/Sun domain family, member 2 is a protein that in humans is encoded by the NSUN2 gene. This gene encodes a methyltransferase that catalyzes the methylation of cytosine to 5-methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. This modification is necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

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Overview

Product Name	Anti-NSUN2 Antibody (Monoclonal, 34N90)
Reactive Species	Human, Monkey, Mouse
Description	Boster Bio Anti-NSUN2 Antibody (Monoclonal, 34N90) catalog # M03878. Tested in WB, IHC, IF, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Monkey.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal 34N90
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q08J23

Technical Details

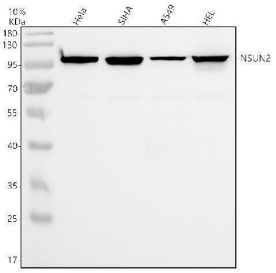
Immunogen	Recombinant protein within human NSUN2 aa 3-765.

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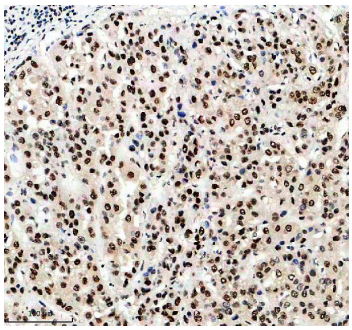
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-200 Immunofluorescence, 1:50-200 Immunocytochemistry/Immunofluorescence, 1:50-200 ImmunoPrecipitation, 1:50

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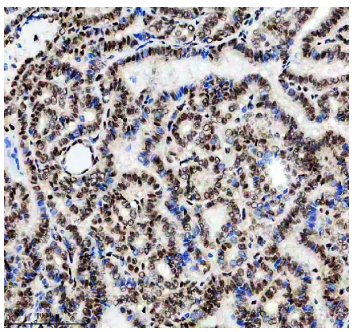
Anti-NSUN2 Antibody (Monoclonal, 34N90) (M03878) Images



Western blot analysis of NSUN2 using anti-NSUN2 antibody (M03878). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human SiHa whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human HEL 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-NSUN2 antigen affinity purified monoclonal antibody (M03878) at 1:500 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NSUN2 at approximately 100 kDa. The expected band size for NSUN2 is at 86 kDa.



IHC analysis of NSUN2 using anti-NSUN2 antibody (M03878). NSUN2 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-NSUN2 Antibody (M03878) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of NSUN2 using anti-NSUN2 antibody (M03878). NSUN2 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-NSUN2 Antibody (M03878) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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