

Anti-NNMT Antibody Picoband®

Catalog Number: A02676-2

About NNMT

Nicotinamide N-methyltransferase (NNMT) is an enzyme that in humans is encoded by the NNMT gene. N-methylation is one method by which drug and other xenobiotic compounds are metabolized by the liver. This gene encodes the protein responsible for this enzymatic activity which uses S-adenosyl methionine as the methyl donor.

Overview

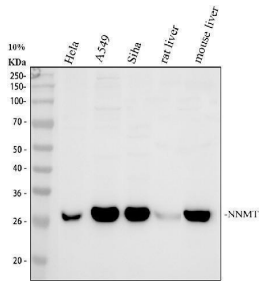
Product Name	Anti-NNMT Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NNMT Antibody Picoband® catalog # A02676-2. Tested in WB, ICC/IF, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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, IP, IF, ICC, 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	P40261

Technical Details

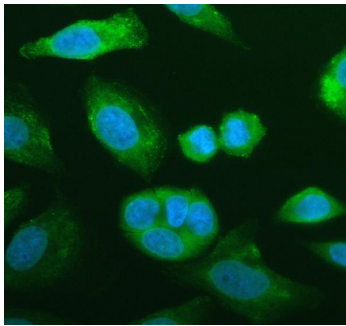
Immunogen	E.coli-derived human NNMT recombinant protein (Position: K8-L264). Human NNMT shares 85.1% amino acid (aa) sequence identity with mouse NNMT.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human

	Immunoprecipitation, 0.5-2 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -
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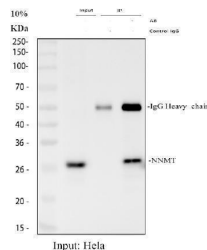
Anti-NNMT Antibody Picoband® (A02676-2) Images



Western blot analysis of NNMT using anti-NNMT antibody (A02676-2). 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 A549 whole cell lysates, Lane 3: human SIHA whole cell lysates, Lane 4: rat liver tissue lysates, Lane 5: mouse liver tissue 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-NNMT antigen affinity purified polyclonal antibody (Catalog # A02676-2) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NNMT at approximately 30 kDa. The expected band size for NNMT is at 30 kDa.



IF analysis of NNMT using anti-NNMT antibody (A02676-2). NNMT was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NNMT Antibody (A02676-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitating (IP) NNMT in HeLa whole cell lysate. Western blot analysis of NNMT using anti-NNMT antibody (A02676-2); Lane 1: HeLa whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-NNMT antibody in HeLa whole cell lysate; Lane 3: anti-NNMT antibody (2ug) + HeLa whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NNMT antigen affinity purified polyclonal antibody (A02676-2) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for NNMT at approximately 30 kDa. The expected band size for NNMT is at 30 kDa.

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Anti-NNMT Antibody

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