

Anti-METRNL Antibody Picoband®

Catalog Number: A11383-1

About METRNL

Meteorin-like/Meteorin-Beta (Metrln)/IL-41, also known as subfatin and cometin, is a small (~27kDa) secreted cytokine, protein encoded by a gene called meteorin-like (METRNL). Meteorin-like protein (METRNL) is a 311 amino acid (aa) protein that shows 45% homology with Meteorin (in mouse). Meteorin itself is a secreted 30 kDa protein that is expressed in glial and neuronal cells and their precursors during development and in the adult. In the adult Meteorin is primarily expressed by astrocytes. Meteorin promotes neurite outgrowth, glial cell differentiation, and neuronal survival following excitotoxic injury. It also inhibits sprouting angiogenesis and promotes blood vessel maturation. Mouse Meteorin-like protein is synthesized with a 45 amino acid (aa) signal peptide and is selectively expressed in the otic vesicle during inner ear development. Mature mouse Meteorin-like protein shares 79% and 98% aa sequence identity with human and rat Meteorin-like protein, respectively. Alternate splicing generates an additional isoform that lacks the N-terminal 82 amino acids including the signal peptide. The promoter region of the METRNL gene contains a recognition site for the Pax2, Pax5, and Pax8 transcription factors, and Pax2 binds specifically to this region. METRNL is the only gene found within the terminus of the human chromosome 17 q-arm which can be deleted in the rare Ring 17 syndrome.

Overview

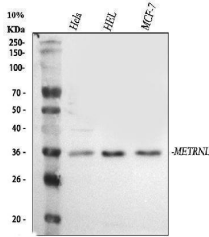
Product Name	Anti-METRNL Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-METRNL Antibody Picoband® catalog # A11383-1. Tested in WB, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high 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 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	Q641Q3

Technical Details

Immunogen	E.coli-derived human METRNL recombinant protein (Position: K66-D311). Human METRNL shares 78.5% and 79.3% amino acid (aa) sequence identity with mouse and rat METRNL, respectively.
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 ELISA, 0.1-0.5 µg/ml, -

Anti-METRNL Antibody Picoband® (A11383-1) Images



Western blot analysis of Meteorin-like/METRNL using anti-Meteorin-like/METRNL antibody (A11383-1). 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 Hela whole cell lysates, Lane 2: human HEL whole cell lysates, Lane 3: 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-Meteorin-like/METRNL antigen affinity purified polyclonal antibody (Catalog # A11383-1) 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 Meteorin-like/METRNL at approximately 34 kDa. The expected band size for Meteorin-like/METRNL is at 34 kDa.

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