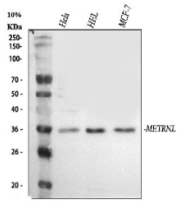
METRNL Antibody / Meteorin-like protein (FY13115)

Catalog No.	Formulation	Size
FY13115	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q641Q3
Applications	Western Blot: 0.25-0.5ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This METRNL antibody is available for research use only.



Western blot analysis of Meteorin-like/METRNL using anti-METRNL antibody. 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-METRNL antibody at 0.5 ug/ml overnight at 4oC, 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 was developed using enhanced chemiluminescent. A specific band was detected for Meteorin-like/METRNL at approximately 34 kDa. The expected molecular weight of Meteorin-like/METRNL is at 34 kDa.

Description

METRNL antibody detects Meteorin-like protein, a secreted cytokine-like factor involved in energy metabolism, inflammation, and tissue regeneration. The UniProt recommended name is Meteorin-like protein (METRNL). Also known as Subfatin or Cometin, this glycoprotein modulates immune responses and promotes tissue repair through activation of

anti-inflammatory macrophages and adipose thermogenesis.

Functionally, METRNL antibody identifies a 311-amino-acid secreted protein expressed in skeletal muscle, adipose tissue, and immune cells. METRNL is released during exercise and cold exposure, stimulating IL4-dependent macrophage activation that enhances energy expenditure and tissue remodeling. It also supports nerve regeneration and angiogenesis in damaged tissues.

The METRNL gene is located on chromosome 17q25.3 and encodes a protein structurally related to Meteorin (METRN). Its expression is induced by PGC1-alpha and STAT6 pathways, linking metabolic and immune regulation. METRNL functions as an intercellular communicator coordinating metabolic adaptation and immune homeostasis.

Pathologically, dysregulated METRNL expression is associated with metabolic disorders, obesity, and inflammation. Increased METRNL levels correlate with improved insulin sensitivity and energy balance, while reduced expression is linked to chronic inflammation and fibrosis. Research using METRNL antibody supports studies in metabolism, immunology, and regenerative biology.

METRNL antibody is suitable for ELISA, western blotting, and immunohistochemistry to detect circulating and tissue-localized Meteorin-like protein. NSJ Bioreagents provides validated METRNL antibody reagents optimized for metabolic signaling, cytokine biology, and muscle physiology research.

Structurally, Meteorin-like protein contains a conserved alpha-helical fold characteristic of secreted growth factors. Its glycosylation and secretion signal peptide facilitate stable extracellular function. This antibody enables detailed study of METRNL's dual roles in metabolic control and immune modulation.

Application Notes

Optimal dilution of the METRNL antibody should be determined by the researcher.

Immunogen

E.coli-derived human METRNL recombinant protein (Position: K66-D311) was used as the immunogen for the METRNL antibody.

Storage

After reconstitution, the METRNL antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.