BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MSL3 Antibody Picoband®

Catalog Number: A04993-1

About MSL3

Y+L amino acid transporter 1 is a protein that in humans is encoded by the SLC7A7 gene. The protein encoded by this gene is the light subunit of a cationic amino acid transporter. This sodium-independent transporter is formed when the light subunit encoded by this gene dimerizes with the heavy subunit transporter protein SLC3A2. This transporter is found in epithelial cell membranes where it transfers cationic and large neutral amino acids from the cell to the extracellular space. Defects in this gene are a cause of lysinuric protein intolerance (LPI). Alternative splicing results in multiple transcript variants.

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Overview

Product Name	Anti-MSL3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-MSL3 Antibody Picoband® catalog # A04993-1. 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 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	Q8N5Y2

Technical Details

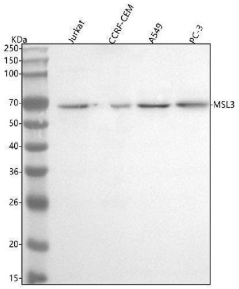
Immunogen	E.coli-derived human SLC7A7 recombinant protein (Position: M1-D498). Human SLC7A7 shares 90.8% and 91.6% amino acid (aa) sequence identity with mouse and rat SLC7A7, respectively.

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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 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

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Anti-MSL3 Antibody Picoband® (A04993-1) Images



Western blot analysis of MSL3 using anti-MSL3 antibody (A04993-1). 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 Jurkat whole cell lysates, Lane 2: human CCRF-CEM whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human PC-3 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-MSL3 antigen affinity purified polyclonal antibody (Catalog # A04993-1) 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 MSL3 at approximately 70 kDa. The expected band size for MSL3 is at 60 kDa.

Anti-MSL3 Antibody

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