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antibody and ELISA experts

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Anti-Oncostatin M/OSM Antibody Picoband™

Catalog Number: PB9732

About OSM

OSM (ONCOSTATIN M) is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. This gene encodes a growth regulator which inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells. OSM is mapped on 22q12.2. It has the ability to inhibit the growth of human A375 melanoma cells but not normal human fibroblasts. Treatment with recombinant OSM leads to the inhibition of proliferation and changes in cellular morphology of a number of tumor cell lines derived from a wide variety of tissue types. OSM also has the ability to inhibit the proliferation of murine M1 myeloid leukemic cells and can induce their differentiation into macrophage-like cells, a function shared by LIF, CSF3, and IL6. The direction of gene transcription was telomeric to centromeric, with the OSM gene located upstream of the LIF gene.

Overview

Product Name	Anti-Oncostatin M/OSM Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Oncostatin M/OSM Antibody Picoband™ catalog # PB9732. Tested in ELISA, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P13725

Technical Details

Immunogen	E. coli-derived human Oncostatin M recombinant protein (Position: A26-R220). Human Oncostatin M shares 47.1% and 47.6% amino acid (aa) sequence identity with mouse and rat Oncostatin M, respectively.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat ELISA , 0.1-0.5ug/ml, Human, - Western blot, 0.1-0.5ug/ml, Human

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Anti-Oncostatin M/OSM Antibody Picoband™ (PB9732) Images

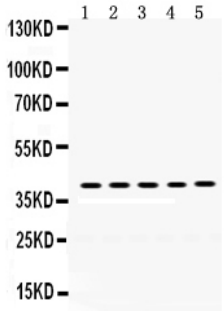

Figure 1. Western blot analysis of Oncostatin M using anti-Oncostatin M antibody (PB9732).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 40 ug of sample under reducing conditions.
Lane 1: A549 Whole Cell Lysate,
Lane 2: HUT Whole Cell Lysate,
Lane 3: JURKAT Whole Cell Lysate,
Lane 4: SW620 Whole Cell Lysate,
Lane 5: MCF-7 Whole Cell Lysate.
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-Oncostatin M antigen affinity purified polyclonal antibody (Catalog # PB9732) 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 Oncostatin M at approximately 40 kDa. The expected band size for Oncostatin M is at 28 kDa.

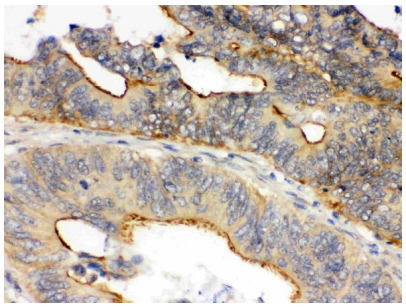

Figure 2. IHC analysis of Oncostatin M using anti-Oncostatin M antibody (PB9732).
Oncostatin M was detected in a paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Oncostatin M Antibody (PB9732) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 25954856, Zhu M, Che Q, Liao Y, Wang H, Wang J, Chen Z, Wang F, Dai C, Wan X. Oncol Rep. 2015 Jul;34(1):129-38. Doi: 10.3892/Or.2015.3951. Epub 2015 May 5. Oncostatin M Activates Stat3 To Promote Endometrial Cancer Invasion And Angiogenesis.

Visit bosterbio.com/anti-oncostatin-m-picoband-trade-antibody-pb9732-boster.html to see all 1 publications.

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