

Anti-Osmr Antibody Picoband®

Catalog Number: A04061-2

About Osmr

Oncostatin-M specific receptor subunit beta also known as the Oncostatin M receptor (OSMR), is one of the receptor proteins for oncostatin M, that in humans is encoded by the OSMR gene. Oncostatin M is a member of the IL6 family of cytokines. Functional receptors for IL6 family cytokines are multisubunit complexes involving members of the hematopoietin receptor superfamily. Many IL6 cytokines utilize gp130 as a common receptor subunit. OSM binds to the gp130 receptor subunit and, in association with leukemia inhibitory factor receptor, induces a proliferative response in permissive cells. Mosley et al. (1996) used degenerate PCR to clone a novel hematopoietin receptor which they called the oncostatin M-specific receptor beta subunit (OSMR-beta). Sequencing revealed that this gene encodes a 979-amino acid protein containing characteristic motifs of the hematopoietin receptor family.

Overview

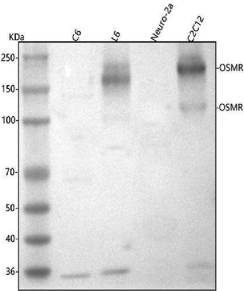
Product Name	Anti-Osmr Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Osmr Antibody Picoband® catalog # A07424-3. Tested in WB, FCM, ELISA applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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, Flow Cytometry, 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	O70458

Technical Details

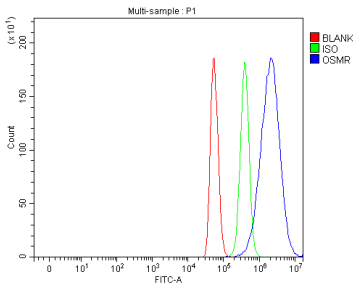
Immunogen	E.coli-derived mouse Osmr recombinant protein (Position: E673-Q968). Mouse Osmr shares 57.7% and 86.9% amino acid (aa) sequence identity with human and rat Osmr, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

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, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug /1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 ug/ml, -

Anti-Osmr Antibody Picoband® (A04061-2) Images



Western blot analysis of Osmr using anti-Osmr antibody (A04061-2). 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: rat C6 whole cell lysates, Lane 2: rat L6 whole cell lysates, Lane 3: mouse Neuro-2a whole cell lysates, Lane 4: mouse C2C12 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-Osmr antigen affinity purified polyclonal antibody (Catalog # A04061-2) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Osmr at approximately 110,180 kDa. The expected band size for Osmr is at 110 kDa.



Flow Cytometry analysis of C2C12 cells using anti-Osmr antibody (A04061-2). Overlay histogram showing C2C12 cells stained with A04061-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Osmr Antibody (A04061-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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Anti-Osmr Antibody

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