

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.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal 1B9
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	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.
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Sheep, Xenopus, Zebrafish
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5 µg/ml, Mouse, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg /1x10⁶ cells, Mouse</p> <p>ELISA, 0.1-0.5 µg/ml, Mouse</p>

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

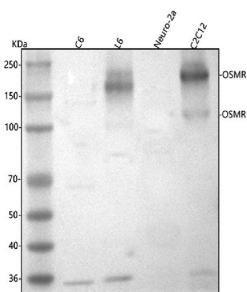


Figure 1. Western blot analysis of Osmr using anti-Osmr antibody (A04061-2).

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.

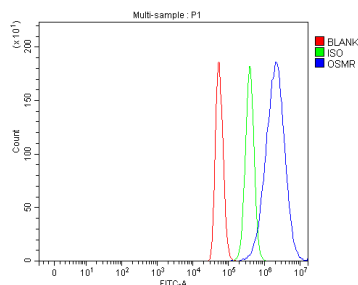


Figure 2. Flow Cytometry analysis of C2C12 cells using anti-Osmr antibody (A04061-2).

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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