

## Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3)

Catalog Number: M01041-1

### About EDNRB

Endothelin receptor type B, also known as ETB is a protein that in humans is encoded by the EDNRB gene. The protein encoded by this gene is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

### Overview

Product Name	Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3)
Reactive Species	Human
Description	Boster Bio Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3) catalog # M01041-1. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Monoclonal 15C3
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	Mouse
Uniprot ID	P24530

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human EDNRB, different from the related mouse and rat sequences by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
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:

Western blot, 0.1-0.5ug/ml

## Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3) (M01041-1) Images

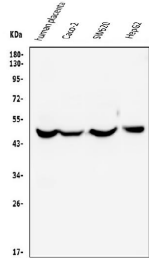


Figure 1. Western blot analysis of EDNRB using anti-EDNRB antibody (M01041-1).

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 50ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,  
Lane 2: human CACO-2 whole cell lysates,  
Lane 3: human SW620 whole cell lysates,  
Lane 4: human HepG2 whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-EDNRB antigen affinity purified monoclonal antibody (Catalog # M01041-1) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for EDNRB at approximately 45KD. The expected band size for EDNRB is at 45KD.

## 1 Publications Citing This Product

1. PubMed ID: 10.1080/03079457.2013.821568, Expression of endothelin-1 and its receptors in the lungs of broiler chickens exposed to high-altitude hypoxia

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