10320 Camino Santa Fe, Suite G
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# Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3)

**Catalog # ABO14858**

## Specification

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

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P24530 |
| Host | **Mouse** |
| Isotype | **Mouse IgG2b** |
| Reactivity | **Human** |
| Clonality | **Monoclonal** |
| Format | **Lyophilized** |

**Description**
Anti-EDNRB Antibody Picoband™ (monoclonal, 15C3) . Tested in WB applications. This antibody reacts with Human.

**Reconstitution**
Add 0.2ml of distilled water will yield a concentration of 500 µg/ml.

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

**Gene ID** 1910

**Other Names**
Endothelin receptor type B, ET-B, ET-BR, Endothelin receptor non-selective type, EDNRB (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3180" target="_blank">HGNC:3180</a>), ETRB

**Calculated MW**
45 kDa KDa

**Application Details**
Western blot, 0.1-0.5 µg/ml<br>

**Subcellular Localization**
Cell membrane. Multi-pass membrane protein.

**Tissue Specificity**
Expressed in placental stem villi vessels, but not in cultured placental villi smooth muscle cells.

**Contents**
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**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.

**Cross Reactivity**
No cross-reactivity with other proteins.

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| | |
|---|---|
| Storage | **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.** |

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

**Name** EDNRB (HGNC:3180)

**Synonyms** ETRB

**Function**
Non-specific receptor for endothelin 1, 2, and 3. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

**Cellular Location**
Cell membrane; Multi-pass membrane protein. Note=internalized after activation by endothelins.

**Tissue Location**
Expressed in placental stem villi vessels, but not in cultured placental villi smooth muscle cells

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

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

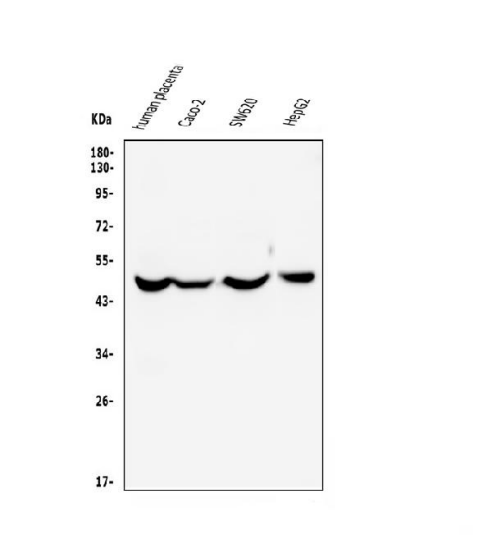

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Figure 1. Western blot analysis of EDNRB using anti-EDNRB antibody (M01041-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample 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 µg/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.

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

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.