



## ***Biotinylated Anti-human Endothelin B Receptor Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF4496

**Lot Number:** CAGR01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human EDNRB

**Immunogen:** *E. coli*-derived rhEDNRB (aa 27 - 101)

**Ig Type:** sheep IgG

**Application:** Western blot

### ***Background***

EDNRB (Endothelin B Receptor) is a member of the beta-family of rhodopsin receptors. It binds Endothelin 1, 2 and 3, and is found on endothelial cells where it mediates vasodilation. Mature human EDNRB is a 7-transmembrane glycoprotein that is 416 amino acids (aa) in length. It contains a 75 aa N-terminal extracellular region (aa 27 - 101), and a 44 aa C-terminal cytoplasmic domain. There are three EDNRB variants that affect aa 27 - 101. One shows a 90 aa N-terminal extension, a second shows the same 90 aa N-terminal substitution coupled with a deletion of aa 268 - 398, and a third shows proteolytic cleavage between Arg64 - Ser65. Over aa 27 - 101, human EDNRB shares 67% and 97% aa identity with mouse and canine EDNRB, respectively.

### ***Preparation***

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Endothelin B Receptor (rhEDNRB; aa 27 - 101; Accession # P24530). Human EDNRB specific IgG was purified by human EDNRB affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human EDNRB Western blots.

### ***Application***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human EDNRB. The detection limit for rhEDNRB is approximately 0.5 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**