

Human EDNRB/Endothelin R Type B Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 671917

Catalog Number: FAB4496G

100 Tests

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human EDNRB/Endothelin R Type B in direct ELISAs. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 671917 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | NS0 mouse myeloma cell line transfected with human EDNRB/Endothelin R Type B Accession # P24530 |
| Conjugate | Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|--|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | HEK293 Human Cell Line Transfected with Human EDNRB and eGFP |

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

EDNRB (Endothelin Receptor Type B) is a 50-55 kDa 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.

PRODUCT SPECIFIC NOTICES

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