

Human EDNRB/Endothelin R Type B Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone #671917

Catalog Number: FAB4496T

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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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