

Human Bradykinin RB2/BDKRB2 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 471916

Catalog Number: FAB47251V

100 µg

DESCRIPTION

| | |
|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human Bradykinin RB2/BDKRB2 in direct ELISAs. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 471916 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | NS0 mouse myeloma cell line transfected with human Bradykinin RB2/BDKRB2 Met1-Gln391 Accession # P30411 |
| Conjugate | Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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 Bradykinin RB2/BDKRB2 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

Bradykinin RB2 (BDKRB2) is a receptor for bradykinin. The 9 aa bradykinin peptide elicits many responses including vasodilation, edema, smooth muscle spasm and pain fiber stimulation. BDKRB2 expression is widespread in normal smooth muscle tissue and neurons. BDKRB2 associates with G proteins that stimulate a phosphatidylinositol-calcium second messenger system. BDKRB2 forms a complex with PECAM1 and GNAQ and interacts with PECAM1. Aging cardiac endothelial cells gradually lose their capacity to express BDKRB2. This loss appears to be parallel with a loss of the angiogenic potential of the aging cells.

PRODUCT SPECIFIC NOTICES

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