

# Human Bradykinin RB2/BDKRB2 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 471902

Catalog Number: FAB9434R

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human RB2/BDKRB2 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 471902
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human RB2/BDKRB2 Met1-Gln391 Accession # P30411
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HEK293 Human Cell Line Transfected with Human Bradykinin RB2/BDKRB2 and eGFP

## PREPARATION AND STORAGE

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

## 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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