

## DESCRIPTION

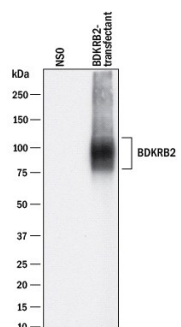
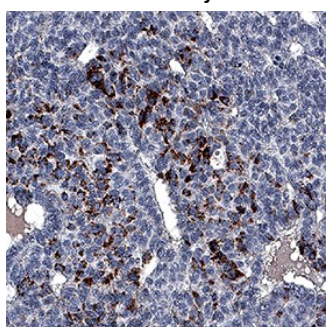
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human RB2/BDKRB2 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 471902
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human RB2/BDKRB2 Met1-Gln391 Accession # P30411
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p> 	<p><b>Detection of Human Bradykinin RB2/BDKRB2 by Western Blot.</b> Western blot shows lysates of NS0 mouse myeloma cell line either mock transfected or transfected with human Bradykinin RB2/BDKRB2. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Bradykinin RB2/BDKRB2 Monoclonal Antibody (Catalog # MAB9434) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Bradykinin RB2/BDKRB2 at approximately 80-100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Bradykinin RB2/BDKRB2 in Human Liver Cancer Tissue.</b> Bradykinin RB2/BDKRB2 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Mouse Anti-Human Bradykinin RB2/BDKRB2 Monoclonal Antibody (Catalog # MAB9434) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and cell surfaces. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</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.