Human Bradykinin RB2/BDKRB2 Antibody

Monoclonal Mouse IgG_1 Clone # 471902

Catalog Number: MAB9434

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RB2/BDKRB2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 471902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human RB2/BDKRB2 Met1-Gln391 Accession # P30411
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

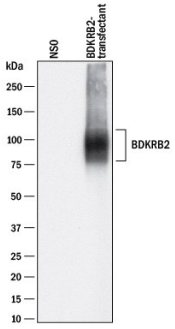
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunohistochemistry	5-25 µg/mL	See Below

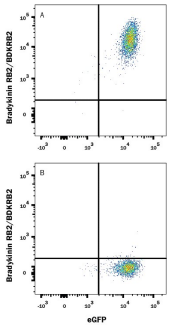
DATA

Western Blot



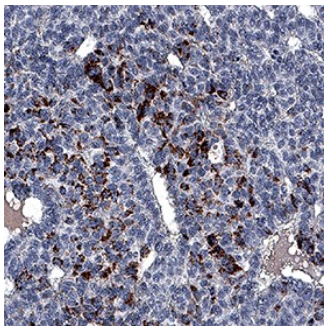
Detection of Human Bradykinin RB2/BDKRB2 by Western Blot. Western blot shows lysates of NS0 mouse myeloma cell line either mock transfected or transfected with human Bradykinin RB2/BDKRB2. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Bradykinin RB2/BDKRB2 Monoclonal Antibody (Catalog # MAB9434) 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.

Flow Cytometry



Detection of Bradykinin RB2/BDKRB2 in HEK293 Human Cell Line Transfected with Human Bradykinin RB2/BDKRB2 and eGFP by Flow Cytometry HEK293 human cell line transfected with (A) Human Bradykinin RB2/BDKRB2 or (B) irrelevant protein, and eGFP was stained with Mouse Anti-Human Bradykinin RB2/BDKRB2 Monoclonal Antibody (Catalog # MAB9434) followed by APC-conjugated Goat anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on Mouse IgG1 Isotype Control Antibody (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry



Bradykinin RB2/BDKRB2 in Human Liver Cancer Tissue. 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.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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.

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