

RhoA Assay Kit

RhoA Activation Assay

CATALOG #
AAA44623

PRODUCT SYNONYMS

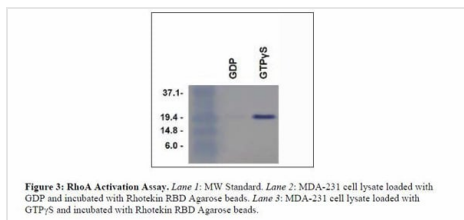
RhoA; RhoA Activation Assay; RhoA Activation Assay Kit; RhoA assay kit

PRODUCT SPECIFICATIONS

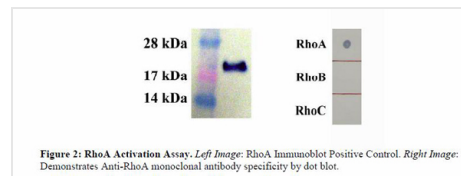
Preparation and Storage

Store all kit components at -20 degree C until their expiration dates. Avoid multiple freeze/thaw cycles.

IMAGES

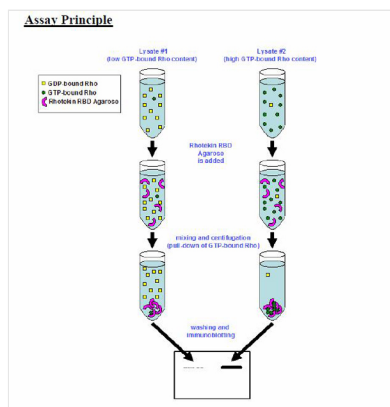


Application Data

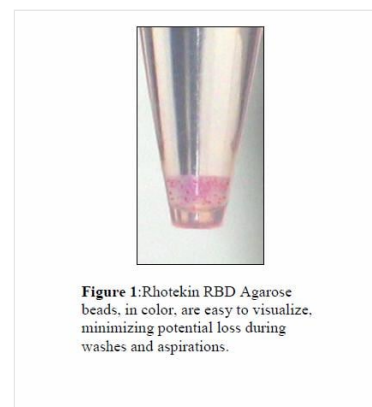


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ADDITIONAL INFORMATION

Related Product Information for RhoA assay kit

Background/Introduction: Small GTP-binding proteins (or GTPases) are a family of proteins that serve as molecular regulators in signaling transduction pathways. RhoA, a 21 kDa protein, regulating a variety of biological response pathways that include cell growth, cell transformation and tumor invasion. Like other small GTPases, RhoA regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, RhoA binds specifically to the Rho-binding domain (RBD) of Rhotekin to control downstream signaling cascades. RhoA Activation Assay Kit utilizes Rhotekin RBD Agarose beads to selectively isolate and pull-down the active form of Rho from purified samples or endogenous lysates. Subsequently, the precipitated GTP-Rho is detected by western blot analysis using an anti-RhoA specific monoclonal antibody (see Figure 3 and Assay Principle). RhoA Activation Assay Kit provides a simple and fast tool to monitor the activation of RhoA. The kit includes easily identifiable Rhotekin RBD Agarose beads (see Figure 1), pink in color, and a RhoA Immunoblot Positive Control for quick RhoA identification. Each kit provides sufficient quantities to perform 20 assays.

Product Categories/Family for RhoA assay kit	Cell Signaling and Protein Biology; G Protein Signaling/Small GTPase Assays and Vectors; Small GTPase Research Tools; Small GTPase Activation Assays
References	1. Ren X.D. and Schwartz M. A. (2000) Methods Enzymol. 325, 264-72. 1. Choi, D. S. et al. (2015). SDF-1alpha stiffens myeloma bone marrow mesenchymal stromal cells through the activation of RhoA-ROCK-Myosin II. Int J Cancer. 136:E219-E229. 2. Schmidt, L. & Carrillo-Sepulveda, M. A. (2015). Toll-like receptor 2 mediates vascular contraction and activates RhoA signaling in vascular smooth muscle cells from STZ-induced type 1 diabetic rats. Pflügers Arch. doi: 10.1007/s00424-015-1688-2. 3. Yanagishita, T. et al. (2014) Actin-binding protein, espin: a novel metastatic regulator for melanoma. Mol. Cancer Res. 12:440-446. 4. Fiuza, M. et al. (2013). GluN3A expression restricts spine maturation via inhibition of GIT1/Rac1 signaling. PNAS. 110:20807-20812. 5. Basu, M. et al. (2012). Wnt/beta-catenin pathway is regulated by PITX2 homeodomain protein and thus contributes to the proliferation of human ovarian adenocarcinoma cell, SKOV-3. J. Biol. Chem. 288:4355-4367. 6. Tripathi, V. et al. (2012). DLC1 interaction with alpha-catenin stabilizes adherens junctions and enhances DLC1 antioncogenic activity. Mol.Cell.Biol. 32:2145-2159. 7. Chen, H. et al. (2010). Integrity of SOS1/EPS8/AB1 tri-complex determines ovarian cancer metastasis. Cancer Res. 70:9979-9990. 8. Hayes, N.V.L. et al. (2010). Expression of neuregulin 4 splice variants in normal human tissues and prostate cancer and their effects on cell motility. Endocr. Relat. Cancer. 18:39-49. 9. Godin, C.M. et al. (2010). The angiotensin II Type 1 receptor induces membrane blebbing by coupling to Rho A, Rho Kinase, and Myosin Light Chain Kinase. Mol.Pharmacol. 77:903-911.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/rhoa/44623>