

Cdc42 Assay Kit

Cdc42 Activation Assay

CATALOG #
AAA44548

PRODUCT SYNONYMS

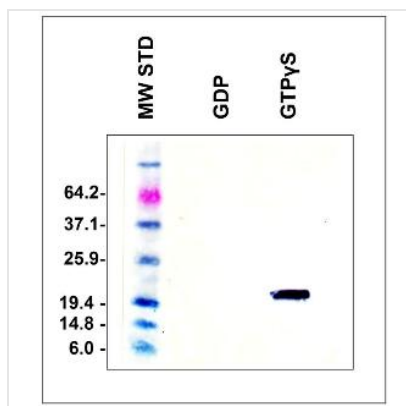
Cdc42; Cdc42 Activation Assay; Cdc42 assay kit

PRODUCT SPECIFICATIONS

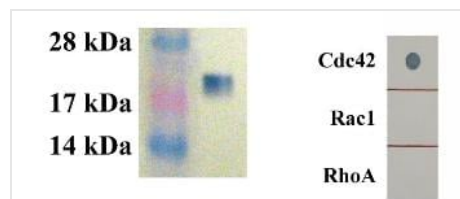
Preparation and Storage

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

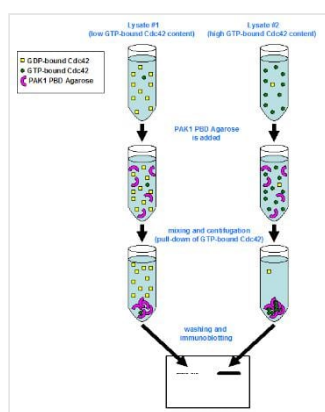
IMAGES



Application Data



Application Data



Application Data

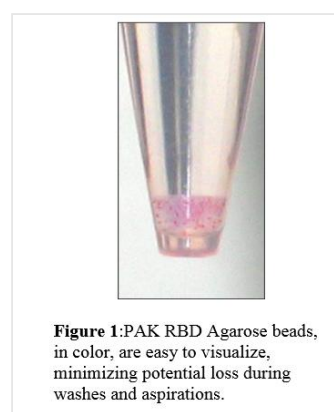


Figure 1:PAK RBD Agarose beads, in color, are easy to visualize, minimizing potential loss during washes and aspirations.

Application Data

ADDITIONAL INFORMATION

Related Product Information for Cdc42 assay kit	Background: Small GTP-binding proteins (or GTPases) are a family of proteins that serve as molecular regulators in signaling transduction pathways. Cdc42, a 21 kDa protein, belongs to the family of Rho GTPases regulates a variety of biological response pathways that include cell motility, cell division, gene transcription, and cell transformation. Like other small GTPases, Cdc42 regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, Cdc42 binds specifically to the p21-binding domain (PBD) of p21-activated protein kinase (PAK) to control downstream signaling cascades. Cdc42 Activation Assay Kit utilizes PAK PBD Agarose beads to selectively isolate and pull-down the active form of Cdc42 from purified samples or endogenous lysates. Subsequently, the precipitated GTP-Cdc42 is detected by western blot analysis using an anti-Cdc42 specific monoclonal antibody (see Figure 3 and Assay Principle). Cdc42 Activation Assay Kit provides a simple and fast tool to monitor the activation of Cdc42. The kit includes easily identifiable PAK1 PBD Agarose beads (see Figure 1), pink in color, and a Cdc42 Immunoblot Positive Control for quick Cdc42 identification. Each kit provides sufficient quantities to perform 20 assays.
Product Categories/Family for Cdc42 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. Raftopoulou M., and Hall A. (2004) Dev Biol. 265: 23-32. 2. Bar-Sagi D., and Hall A. (2000) Cell 103: 227-38. 3. Benard, V., Bohl, B. P., and Bokoch, G. M. (1999) J. Biol. Chem. 274, 13198-13204. 1. El-Sayed, F.G. et al. (2014). P2Y2 nucleotide receptor activation enhances the aggregation and self-organization of dispersed salivary epithelial cells. Am J Physiol Cell Physiol. 307: C83-C96. 2. He, S. et al. (2013). SRGAP1 is a candidate gene for papillary thyroid carcinoma susceptibility. J. Clin. Endocrinol. Metab. 98:E973-E980. 3. Zhang, S. et al. (2008). The tumor suppressor LKB1 regulates lung cancer cell polarity by mediating Cdc42 recruitment and activity. Cancer Res. 68:740-748. 4. Somerville, T. et al. (2006). Identification and characterization of leukemia stem cells in murine MLL-AF9 acute myeloid leukemia. Cancer Cell 10:257-268.

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/cdc42/44548>