

PAK1 PBD Agarose Beads Accessory Reagent

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CATALOG # AAA44602

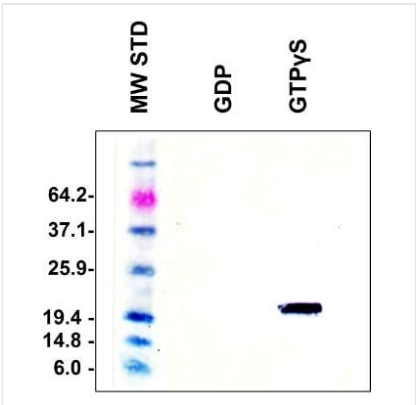
PRODUCT SYNONYMS

PAK1 PBD Agarose Beads; PAK1 PBD Agarose Beads accessory reagent

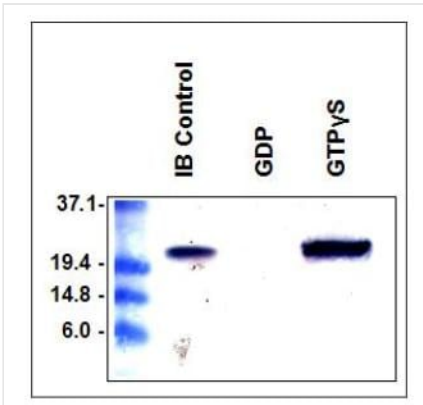
PRODUCT SPECIFICATIONS

Activity	Product specifically interacts and precipitates GTP-bound Rac or Cdc 42 from cell lysate (Figures 2 & 3).
Quantity	800 uL of 50% Agarose slurry, 400 ug PAK1-PBD in 1X PBS, 50% Glycerol
Preparation and Storage	-20 degree C. Shelf Life: 1 year from receipt under proper storage conditions; avoid multiple freeze thaw cycles

IMAGES



Application Data



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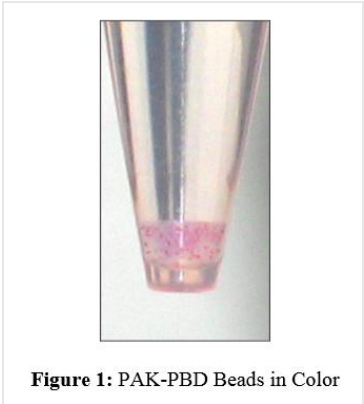


Figure 1: PAK-PBD Beads in Color

Application Data

ADDITIONAL INFORMATION

Related Product Information for PAK1 PBD Agarose Beads accessory reagent	• Pull down the active form of Rac or Cdc42 • Colored for easy visualization Small GTP-binding proteins (or GTPases) are a family of proteins that serve as molecular regulators in signaling transduction pathways. Rac, a 21 kDa protein, belongs to the family of Rho GTPases regulating a variety of biological response pathways that include cell motility, cell division, gene transcription, and cell transformation. Like other small GTPases, Rac regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, Rac binds specifically to the p21-binding domain (PBD) of p21-activated protein kinase (PAK) to control downstream signaling cascades.
Product Categories/Family for PAK1 PBD Agarose Beads accessory reagent	Cell Signaling and Protein Biology; G Protein Signaling/Small GTPase Assays and Vectors; Small GTPase Research Tools; Small GTPase Assay Beads
References	1. Raftopoulos 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. Morrison, A. R. et al. (2014). Chemokine-Coupled beta2 Integrin-Induced Macrophage Rac2-Myosin IIA Interaction Regulates VEGF-A mRNA Stability and Arteriogenesis. J Exp Med. 211:1957-1968. 2. Pothula, S. et al. (2013). Regulation of Cdc42 Expression and Signaling Is Critical for Promoting Corneal Epithelial Wound Healing. Invest. Ophthalmol. Vis. Sci. 54: 5343-5352. 3. Cheng, J. et al.(2010).FSP-1 Silencing in Bone Marrow Cells Suppresses Neointima Formation in Vein Graft. Circ Res. 110:230-240. 4. Levy-Adam, F. et al. (2008). Heparanase Facilitates Cell Adhesion and Spreading by Clustering of Cell Surface Heparan Sulfate Proteoglycans. PLoS ONE 3(6):e2319. 5. Zhang, Q-G. et al. (2009). Estrogen Attenuates Ischemic Oxidative Damage Via an Estrogen Receptor Alpha-Mediated Inhibition of NADPH Oxidase Activation. J. Neurosci. 29:13823-13836. 6. Sabbatini, M. E. et al. (2010). CCK Activates RhoA and Rac1 Differentially Through G-alpha-13 and G-alpha-q in Mouse Pancreatic Acini. Am. J. Physiol. Cell Physiol. 298:C592-C605.

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/accessory-reagent/pak1-pbd-agarose-beads/44602>