RhoA G17A Agarose Beads (Active Rho-GEF)

CATALOG NUMBER: STA-431

STORAGE: -20°C

QUANTITY AND CONCENTRATION: 1.0 mL of 50% Agarose slurry, 0.4 mg/mL RhoA G17A in 1X PBS, 50% Glycerol

SHELF LIFE: 1 year from receipt under proper storage conditions; avoid multiple freeze thaw cycles

Background
Small GTP-binding proteins (or GTPases) are a family of proteins that serve as molecular regulators in signaling transduction pathways. Rho, 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, Rho influences molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. Cycling between the GDP-bound and GTP-bound state is regulated primarily by two distinct families of proteins: guanine nucleotide exchange factors (GEFs) activate Rho proteins by catalyzing the exchange of GDP for GTP, the GTPase activating proteins or GAPs negatively regulate GTPase function by stimulating GTP hydrolysis.

Similar to Ras mutants, constitutively active or dominant negative Rho GTPase mutants have been used to bind to Rho-GAP and effectors or to Rho-GEFs, respectively. A nucleotide-free GTPase has also been shown to form a high affinity binary complex with Rho-GEFs. RhoA G17A Agarose beads selectively isolate and pull-down the active form of Rho-GEF from purified samples or endogenous lysates. Subsequently, the precipitated Rho-GEF is detected by western blot analysis using an anti-Rho-GEF antibody.

Purity and Activity
Purity >90% by SDS-PAGE and Coomassie blue staining. Specifically interacts and precipitates active Rho-GEF from cell lysate.

References

Recent Product Citations
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