RanBP1 Agarose Beads

CATALOG NUMBER: STA-421  

STORAGE: -20°C

QUANTITY AND CONCENTRATION: 800 µL of 50% Agarose slurry, 400 µg RanBP1 (full length) 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. Ran, a 25 kDa protein of the Ras superfamily, regulates a variety of biological response pathways that include DNA synthesis, cell cycle progression, and translocation of RNA/proteins through the nuclear pore complex. Like other small GTPases, Ran regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, Ran binds specifically to RanBP1 to control downstream signaling cascades.

Presentation
RanBP1 Agarose beads, in color, are easy to visualize, minimizing potential loss during washes and aspirations of Ran-GTP pulldown (Figure 1).

Figure 1: RanBP1 Beads in Color
**Activity**

Product specifically interacts and precipitates GTP-bound Ran from cell lysate (Figure 2).

**Figure 2**: Ran Activation Assay. Lane 1, NIH 3T3 cell lysate loaded with GDP and incubated with RanBP1 Agarose beads. Lane 2, NIH 3T3 cell lysate loaded with GTPγS and incubated with RanBP1 Agarose beads.

**References**


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