Catalog Number: STA-420

Storage: -20°C

Quantity and Concentration: 800 µL of 50% Agarose slurry, 400 µg RalBP1-PBD (amino acid 397-518) 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. Ral, a 24 kDa protein of the Ras superfamily, regulates a variety of biological response pathways that include vesicle trafficking, cytoskeletal rearrangement, and migration. The Ras-like proteins RalA and RalB share 85% identity. Like other small GTPases, Ral regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In their active (GTP-bound) state, Ral A and Ral B bind specifically to the protein-binding domain (PBD) of RalBP1 to control downstream signaling cascades.

Presentation
RalBP1 PBD Agarose beads, in color, are easy to visualize, minimizing potential loss during washes and aspirations of Ral-GTP pulldown (Figure 1).

Figure 1: RalBP1-PBD Beads in Color
Activity
Product specifically interacts and precipitates GTP-bound Ral from cell lysate (Figure 2).

Figure 2: Ral Activation Assay. Lane 1, NIH 3T3 cell lysate loaded with GDP and incubated with RalBP1 PBD Agarose beads. Lane 2, NIH 3T3 cell lysate loaded with GTPγS and incubated with RalBP1 PBD Agarose beads.

References

Warranty
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