Product Data Sheet

RalGDS RBD Agarose Beads

CATALOG NUMBER: STA-418

STORAGE: -20ºC

QUANTITY AND CONCENTRATION: 800 µL of 50% Agarose slurry, 400 µg of murine RalGDS-RBD (amino acid 726-823) 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. Rap, a 24 kDa protein of the Ras superfamily, regulates a variety of biological response pathways that include cell adhesion, proliferation, differentiation, and apoptosis. The Ras-like proteins Rap1 and Rap2 share 60% identity. Like other small GTPases, Rap regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In their active (GTP-bound) state, Rap1 and Rap2 bind specifically to the Rap-binding domain (RBD) of RalGDS to control downstream signaling cascades.

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

Figure 1: RalGDS-RBD Beads in Color

Activity
Product specifically interacts and precipitates GTP-bound Rap from cell lysate (Figure 2).
Figure 2: **Rap1 Activation Assay.** Lane 1, NIH 3T3 cell lysate loaded with GDP and incubated with RalGDS RBD Agarose beads. Lane 2, NIH 3T3 cell lysate loaded with GTPγS and incubated with RalGDS RBD Agarose beads.

**References**


**Warranty**

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