

Raf1 RBD Agarose Beads

CATALOG NUMBER: STA-410

STORAGE: -20°C

QUANTITY AND CONCENTRATION: 800 μ L of 50% Agarose slurry, 400 μ g Raf1-RBD 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. Ras, a 21 kDa protein, regulating a variety of biological response pathways that include cell growth, cell transformation and tumor invasion. Like other small GTPases, Ras regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, Ras binds specifically to the Ras-binding domain (RBD) of Raf1 to control downstream signaling cascades.

Presentation

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



Figure 1: Raf1-RBD Beads in Color

Activity

Product specifically interacts and precipitates GTP-bound Ras from cell lysate.

References

1. Bar-Sagi D., and Hall A. (2000) *Cell* **103**: 227-38.

2. de Rooij J., and Bos J. L. (1997) *Oncogene* **14**: 623-5.

Recent Product Citations

1. Takino, J.I. et al. (2019). The inhibition of Bax activation-induced apoptosis by RasGRP2 via R-Ras-PI3K-Akt signaling pathway in the endothelial cells. *Sci Rep.* **9**(1):16717. doi: 10.1038/s41598-019-53419-4.
2. Moniz, S. et al. (2007). Protein kinase WNK2 inhibits cell proliferation by negatively modulating the activation of MEK1/ERK1/2. *Oncogene* **26**(41): 6071-6081.

Warranty

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