# Raf1 RBD Agarose Beads

CATALOG NUMBER: STA-410 STORAGE: -20°C

**QUANTITY AND CONCENTRATION:** 800 μL of 50% Agarose slurry, 400 μg 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).

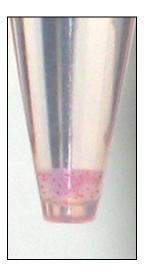


Figure 1: Raf1-RBD Beads in Color

#### Activity

Product specifically interacts and precipitaes 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.

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