

## Active EGFRvIII protein-coupled magnetic Beads

Cat. No. EGFRvIII-342M Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Leu 25- Ser 378
<b>Appearance</b>	Powder mixture
<b>Particle size</b>	2 µm
<b>Bio-activity</b>	Immobilized 44 µg EGFRvIII protein/1 mg beads can bind Anti-EGFR Antibody (Cetuximab) with an EC50 of 0.7172 µg/mL.
<b>Coupled amount of protein</b>	≈261 pmol (11 µg) EGFRvIII/mg beads
<b>Capacity</b>	>200 pmol (30 µg) antibody/mg beads
<b>Formulation</b>	PBS, pH7.4, with 10% Trehalose
<b>Reconstitution</b>	2 mL sterile deionized water (1 mg beads/mL)
<b>Background</b>	The Human EGFRvIII-coupled Magnetic Beads is produced by coupling biotinylated EGFRvIII protein to streptavidin-conjugated magnetic beads. Because Streptavidin (SA) has an extraordinarily high affinity for biotin with a dissociation constant (Kd) on

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the order of 10-14 mol/L, the biotinylated protein can bind to the SA beads irreversibly. The pre-coupled beads are ready to use for capturing anti-EGFRvIII antibody from your sample with high specificity.

**Application**

This product is intended for immunocapture, biopanning and flow cytometry. This product is produced non-sterile.

**Storage**

Upon receipt, please store the Beads at -20°C for 1 year in lyophilized state.

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