

## Active MSLN protein-coupled magnetic Beads

**Cat. No.** MSLN-7689M    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                                  |                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>                   | Human                                                                                                                                                               |
| <b>Source</b>                    | HEK293                                                                                                                                                              |
| <b>ProteinLength</b>             | Glu 296 - Gly 580 (R309P)                                                                                                                                           |
| <b>Appearance</b>                | Powder mixture                                                                                                                                                      |
| <b>Particle size</b>             | 2 µm                                                                                                                                                                |
| <b>Bio-activity</b>              | Immobilized 19.5 µg MSLN to 1mg Beads can bind the Anti MSLN Ab with an EC50 of 0.1037 µg/mL.                                                                       |
| <b>Coupled amount of protein</b> | ≈330 pmol (19.5µg) Mesothelin / mg beads                                                                                                                            |
| <b>Capacity</b>                  | >270 pmol (16 ug) Anti-hMSLN 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 Mesothelin-coupled Magnetic Beads is produced by coupling biotinylated mesothelin protein to streptavidin-conjugated magnetic beads. Because Streptavidin |

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(SA) has an extraordinarily high affinity for biotin with a dissociation constant ( $K_d$ ) on 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-mesothelin 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  $-20^{\circ}\text{C}$  for 1 year in lyophilized state.

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