

## Active Protein A-coupled magnetic Beads

**Cat. No.** Protein A-765M    **Lot. No.** (See product label)

### SPECIFICATION

**Appearance**                      lyophilized powder mixture

**Particle size**                      2.8µm

**Bio-activity**                      Immobilized 0.04 µg /Test of Biotinylated Human PD-1, Avitag,His Tag (recommended for biopanning) to the Streptavidin-Acridine ester (0.008 µg /Test), incubated with 100 µL /Test of Human PD-L1, Fc Tag at increasing concentration coupled to Protein A-coupled Magnetic Beads (used for MPCLIA) (10 µg beads/Test). Detection was performed with sensitivity of 3.125 ng/mL in Magnetism particulate chemiluminescence immunoassay (MPCLIA) (KEYSMILE, SMART 6500S).

**Coupled amount of protein**                      About 755 pmol (20 µg) Protein A/mg Beads

**Capacity**                              15-25ug Human antibody or Human IgG Fc tag proteins/mg beads

**Background**                      The Protein A-coupled Magnetic Beads are 2.8 µm superparamagnetic particles covalently coupled to a highly pure form of Diamond Protein A. The beads can be used to capture the antibodies in Chemiluminescence procedures. The Diamond Protein A is a 26.5 kDa surface protein, it binds the heavy chain within the Fc region of most immunoglobulins and also within the Fab region in the case of the human VH3 family. The Protein A-coupled Magnetic Beads is easy to capture the most antibodies, and the bounded antibody have no activity lost, this ready to use products could greatly save your protein coupling time and hassle, and help us get the best performance and highly reproducible results.

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**Application**

The Protein A-coupled Magnetic Beads is used to capture the most antibodies, it can combination with Acridinium ester markers in chemiluminescence technology, The Acridinium ester markers such as Streptavidin-Acridinium ester can capture the biotinylated proteins or molecules, this allows detection of antigen and antibody binding or antibody screening.

**Storage**

Upon receipt, please store the Beads at -20°C. The shelf life is 1 year at -20 °C.

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