

Active Spike Trimer protein-coupled magnetic Beads

Cat. No. Spike-4123M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Sars-CoV-2
Source	HEK293
ProteinLength	Val 16 - Pro 1213
Appearance	Powder mixture
Particle size	2 µm
Bio-activity	Immobilized 35 µg Spike Trimer protein to 1 mg Beads, can bind the Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Chimeric mAb, Human IgG1 with an EC50 of 0.5499 µg/mL.
Coupled amount of protein	≈251 pmol (35 µg) Spike Trimer/mg Beads
Capacity	>133 pmol (20 µg) antibody/mg beads
Formulation	PBS, pH7.4, with 10% Trehalose
Reconstitution	2 mL sterile deionized water (1 mg beads/mL)
Background	The pre-coupled magnetic beads coupled with biotinylated SARS-CoV-2 Spike trimer

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protein to streptavidin conjugated magnetic beads, which can capture the Anti-SARS-CoV-2 antibody or ACE2 protein from cell or serum sample. The SARS-CoV-2 Spike trimer protein, His Tag, Super stable trimer (SPN-C52H9) is the ectodomain of SARS-CoV-2 S protein which contains AA Val 16 - Pro 1213 (Accession # QHD43416.1). The recombinant protein is expressed from human 293 cells (HEK293) with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus. Proline substitutions (F817P, A892P, A899P, A942P, K986P, V987P) and alanine substitutions (R683A and R685A) are introduced to stabilize the trimeric prefusion state of SARS-CoV-2 S protein and abolish the furin cleavage site, respectively. The beads are in uniform size, narrow size distribution with large surface area and unique surface coating, which can help you get the best performance and highly reproducible results. This very first SARS-CoV-2 Spike trimer protein-coupled magnetic beads will bring great convenience with minimum non-specific binding and developed protocols. This ready to use products could greatly save your time and hassle.

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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