

Active Spike RBD (B.1.1.7) protein-coupled magnetic Beads

Cat. No. Spike-4132M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg 319 - Lys 537(N501Y)
Appearance	Powder mixture
Particle size	2 µm
Bio-activity	Immobilized 33 µg RBD protein /1mg beads can bind ACE2 with an EC50 of 1.337 µg/mL.
Coupled amount of protein	≈1194 pmol (33.8 µg) SARS-CoV-2 RBD protein/mg beads
Capacity	>300 pmol (33 µg) Human ACE2 ligand/mg beads
Formulation	PBS, pH7.4, with 10% Trehalose
Reconstitution	2 mL sterile deionized water (1 mg beads/mL)
Background	The SARS-CoV-2 Spike RBD (B.1.1.7) Coupled Magnetic Beads is produced by coupling biotinylated SARS-CoV-2 spike RBD to streptavidin-conjugated magnetic

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beads. The spike RBD coupled to the beads contains the critical N501Y mutation identified in multiple circulating SARS-CoV-2 variants, e.g. the U.K. variant (known as B.1.1.7, 20B/501Y.V1 or VOC 202012/01), the South African variant (known as B.1.351 or 20C/501Y.V2) and the Brazilian variant (known as P.1). The pre-coupled beads are ready to use for capturing anti-SARS-CoV-2 antibody or ACE2 protein 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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