S
Research Grade Anti-SARS-CoV-2 Spike-RBD (S2H97) mAb, Biotin labeled

Catalog No.	DVV00317X-BT DVV00317B-BT	**Quantity:**	0.5 mg 1.0 mg

Alternate Names: Spike glycoprotein, Spike receptor binding domain, Spike-RB protein, S2H97

Description: S2H97 is a fully human anti-SARS-CoV-2 monoclonal antibody originally derived from COVID-19 convalescent plasma, selected based on its potential to neutralize the virus in vitro, including variant Omicron. S2H97, binds with high affinity across all sarbecovirus clades to a cryptic epitope and prophylactically protects from viral challenge. The exceptionally cross-reactive S2H97 antibody targets a previously undescribed cryptic antigenic site. S2H97 binding is facilitated by packing of the heavy chain complementarity-determining region 3 (CDR3) into an RBD crevice at the center of the epitope, together with polar contacts with all three heavy chain CDRs and the light chain CDR2. Antibodies that target the angiotensin-converting enzyme 2 (ACE2) receptor-binding motif (RBM) typically have poor breadth and are readily escaped by mutations despite high neutralization potency.

UniProt ID: P0DTC2-2

Specificity: Recognizes SARS-CoV-2 Spike-RBD (2019-nCoV) conserved epitope

Conjugate: Biotin

Source: Mammalian cells

Purity: > 95% by SDS-PAGE

Isotype: Human IgG1 kappa

Clone: S2H97

Concentration: 0.5 mg/ml, lot specific

Formulation: 0.01M PBS, pH 7.4, may contain 50% Glycerol, 0.05% Proclin 300.

Purification: Affinity chromatography

Storage & Stability: Stable at 2-8°C for 1 week or for up to 1 year at -20°C to -80°C. It is recommended to prepare single-use aliquots of undiluted product and store -20°C to -80°C.
Avoid repeated freeze/thaw cycles.

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