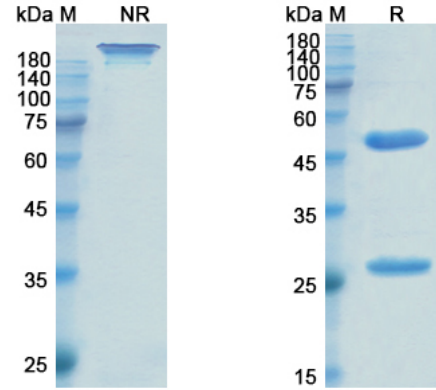
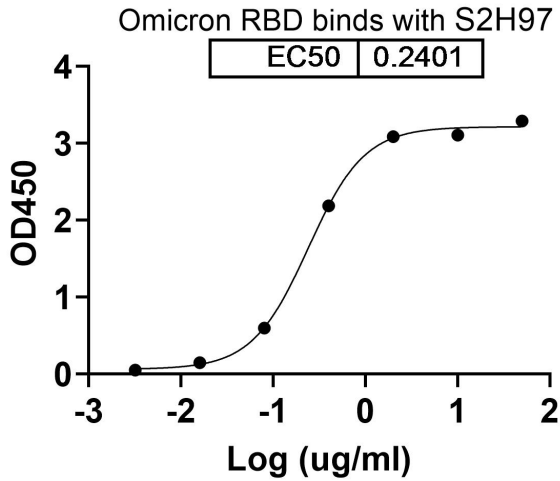


## S

### Research Grade Anti-SARS-CoV-2 Spike-RBD (S2H97) mAb

<b>Catalog No.</b>	DVV00317A DVV00317B	<b>Quantity:</b>	100 µg 1.0 mg
<b>Alternate Names:</b>	Spike glycoprotein, Spike receptor binding domain, Spike-RB protein, S2H97		
<b>Description:</b>	S2H97 is a fully human anti-SARS-CoV-2 monoclonal antibody 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.		
<b>UniProt ID:</b>	P0DTC2-2		
<b>Immunogen:</b>	Derived from COVID-19 convalescent plasma		
<b>Specificity:</b>	Recognizes SARS-CoV-2 Spike-RBD (2019-nCoV) conserved epitope		
<b>Source:</b>	XtenCHO		
<b>Purity:</b>	> 95% by SDS-PAGE		
<b>Isotype:</b>	Human IgG1 kappa		
<b>Clone:</b>	S2H97		
<b>Concentration:</b>	1.0 mg/ml, lot specific		
<b>Formulation:</b>	Sterile-filtered 0.01M PBS, pH 7.4 preservative free.		
<b>Purification:</b>	Protein A affinity chromatography		
<b>Endotoxin:</b>	≤ 0.01 EU/µg by LAL analysis		
<b>Applications:</b>	<b>Neutralization, Functional Assays</b>		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze/thaw cycles.</b>		



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