

Product datasheet for **TA386502**

S Protein Human Monoclonal Antibody [Clone ID: Sb#45]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Sb#45
Applications:	ELISA, Inhib
Host:	Human
Isotype:	IgG1-Fc Fusion
Clonality:	Monoclonal
Immunogen:	This clone was originally isolated in a form of a synthetic nanobody (sybody) via a 'target swap' selection procedure against RBD-vYFP using ribosomal display and against RBD-Fc fusion during phage display rounds.
Specificity:	<p>This antibody recognizes and binds the SARS CoV 2 C-terminal receptor binding domain (RBD) located in the extracellular portion of the spike protein.</p> <p>This antibody is recommended for detection of SARS CoV 2 or 2019-nCoV. Its high specificity to the novel coronavirus SARS-Cov-2 was confirmed via ELISA testing (Walter et al., 2020). Furthermore, grating-coupled interferometry demonstrated that this antibody binds the receptor binding domain (RBD) of the spike protein with high affinity (Walter et al., 2020). Subsequent testing showed that this clone exhibits exceptionally strong inhibition of binding of SARS-Cov-2 RBD to hACE2, which is the receptor for the virus (signal of RBD association with hACE2 decreased over 90%) (Walter et al., 2020).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	S Protein
Database Link:	P0DTC2
Note:	This chimeric human antibody was made using the variable domain sequences of the original VHH format, for improved compatibility with existing reagents, assays and techniques.



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