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Human Anti-SARS-CoV-2 Spike-RBD Sotrovimab (VIR-7831 / GSK4182136) Neutralizing mAb

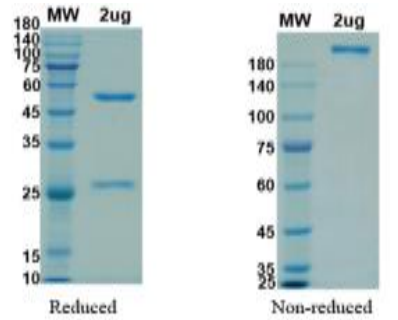
Catalog No.	CPC538A CPC538B CPC538C	Quantity:	50 µg 100 µg 1.0 mg
Alternate Names:	Spike glycoprotein, Spike receptor binding domain, Spike-RB protein, VIR-7831, GSK4182136, Sotrovimab		
Description:	<p>VIR-7831 (GSK4182136) is a fully human anti-SARS-CoV-2 monoclonal antibody selected based on its potential to neutralize the virus in vitro, kill infected cells, provide a high barrier to resistance, and achieve high concentrations in the lungs (one of the major sites of infection).</p> <p>Sotrovimab was derived from a parent antibody (S309), first isolated in 2003 from an individual's memory B cells who had recovered from a SARS-1 coronavirus infection. Sotrovimab differs from S309 in a particular way. It is purposefully engineered to possess two mutations in the Fc region. These are M428L and N434S, colloquially referred to as the LS mutation. These two mutations confer enhanced antibody binding to the Fc receptor, a critical binding agent for monoclonal neutralization. Studies describe that the two mutations result in an extended half-life of roughly 50 days and enhanced drug distribution to the respiratory system.</p>		
UniProt ID:	P0DTC2		
Origin:	Derived from antibody isolated in 2003 from an individual's memory B cells who had recovered from a SARS-1 coronavirus infection.		
Specificity:	Recognizes SARS-CoV-2 Spike glycoprotein		
Source:	XtenCHO		
Purity:	> 95% by reduced and non-reduced SDS-PAGE		
Isotype:	Humanized IgG		
Clone:	VIR-7831 / GSK4182136 (Sotrovimab)		
Concentration:	1.0 mg/ml, lot specific		
Formulation:	Sterile-filtered PBS, pH 7.5 preservative free.		
Purification:	Protein A affinity chromatography		
Biological Activity	RBD(B.1.1.7) 50.50		
EC₅₀:	RBD(B.1.351) 65.90		
	RBD(P.1) 64.07		
	RBD(E484K) 47.65		
	RBDwt 63.93		
Applications:	Neutralization, Functional Assays		



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.



Coomassie blue staining non-reduced and reduced
SDS-PAGE analysis

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

