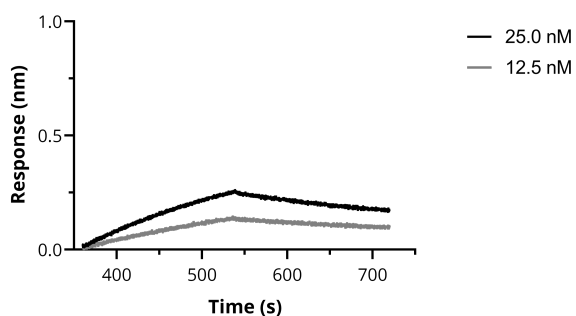


## Properties

<b>Description</b>	Recombinant monovalent Nanobody against the Receptor-binding domain (RBD) of SARS-CoV-2 Spike protein
<b>Species Specificity</b>	Virus
<b>Source</b>	Alpaca, recombinantly produced
<b>Class</b>	Recombinant
<b>Type</b>	Nanobody / VHH, monovalent
<b>Clonality</b>	Monoclonal
<b>Clone No.</b>	NM1220 [Wagner et al. EMBO Rep. 2021 May 5;22(5):e52325. PMID: 33904225]
<b>RRID</b>	AB_2892246
<b>Epitope</b>	Unknown
<b>Immunogen</b>	RBD of SARS-CoV-2 Spike protein
<b>Full Name</b>	SARS-CoV-2 Spike protein
<b>Calculated MW</b>	25 kDa
<b>GenBank Accession Number</b>	NC_045512
<b>Gene Symbol</b>	COVID-19 S Protein
<b>GeneID (NCBI)</b>	43740568
<b>Affinity (K<sub>D</sub>)</b>	42 nM
<b>Conjugate</b>	Unconjugated
<b>Form</b>	Liquid
<b>Purification Method</b>	Recombinant expression, affinity purification by IMAC. <i>Note: SARS-CoV-2 Spike Recombinant VHH carries a C-terminal Myc-tag and His-tag.</i>
<b>Concentration</b>	1000 µg/mL (61.6 µM)
<b>Tested Applications</b>	Bio-Layer Interferometry (BLI)
<b>Positive Controls</b>	BLI: biotinylated RBD and SARS-CoV-2 Spike Recombinant VHH
<b>Cited Applications</b>	BLI, Multiplex ACE2 competition assay <i>Note: Not recommended for Western blotting.</i>

Reference	Wagner et al. EMBO Rep. 2021 May 5;22(5):e52325. PMID: 33904225
Cited Assay Concentration	Multiplex ACE2 competition assay: 0.12 nM - 2.1 μM
Storage Buffer	PBS, 0.09% sodium azide Safety datasheet (SDS): sodium azide
Storage Conditions	Aliquot upon receipt and store at -20°C/-4°F. Avoid freeze-thaw cycles.
Stability	Stable for 1 year at -20°C/-4°F after shipment.
Shipment	Shipped at ambient temperature.
Size	20 μg; 100 μg

## Selected validation data



*BLI binding kinetics of SARS-CoV-2 Spike Recombinant VHH [NM1220] to RBD. Biotinylated RBD was immobilized on FortéBio Streptavidin (SA) Biosensors and assayed with different concentrations of SARS-CoV-2 Spike Recombinant VHH [NM1220] (ChromoTek sc-NM1220).*

## Product overview and related products

SARS-CoV-2 Spike Recombinant VHHs	Product code
SARS-CoV-2 Spike Recombinant VHH [NM1220]	sc-NM1220-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1221]	sc-NM1221-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1222]	sc-NM1222-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1223]	sc-NM1223-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1224]	sc-NM1224-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1226]	sc-NM1226-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1227]	sc-NM1227-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1228]	sc-NM1228-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1229]	sc-NM1229-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1230]	sc-NM1230-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1266]	sc-NM1266-20; -100
SARS-CoV-2 Spike Recombinant VHH [NM1267]	sc-NM1267-20; -100

For product details, information, and ordering visit <https://www.ptglab.com/>.

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