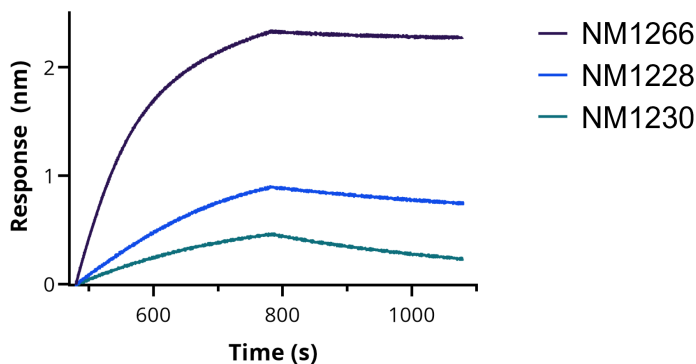


Properties

Description	Recombinant bivalent Nanobody against the Receptor-binding domain (RBD) of SARS-CoV-2 Spike protein
Species Specificity	Virus
Source	Alpaca, recombinantly produced
Class	Recombinant
Type	Nanobody / VHH, biparatopic
Clonality	Monoclonal
Clone No.	NM1266 (NM1230-NM1228 fusion) [Wagner et al. EMBO Rep. 2021 May 5;22(5):e52325. PMID: 33904225]
RRID	AB_2892256
Epitope	NM1230: Amino acids 351 and 437-503 (determined by X-Ray crystallography) NM1228: Amino acids 370-387 and 489-514 (determined by HDX-MS)
Immunogen	RBD of SARS-CoV-2 Spike protein
Full Name	SARS-CoV-2 Spike protein
Calculated MW	25 kDa
GenBank Accession Number	NC_045512
Gene Symbol	COVID-19 S Protein
GeneID (NCBI)	43740568
Affinity (K_D)	NM1230: 9.5 nM NM1228: 0.75 nM
Conjugate	Unconjugated
Form	Liquid
Purification Method	Recombinant expression, affinity purification by IMAC. <i>Note: SARS-CoV-2 Spike Recombinant VHH carries a C-terminal His-tag.</i>
Concentration	1000 μ g/mL (34.8 μ M)
Tested Applications	Bio-Layer Interferometry (BLI)
Positive Controls	BLI: biotinylated RBD and SARS-CoV-2 Spike Recombinant VHH
Cited Applications	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: 8 pM - 126 nM
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 [NM1266] to RBD. Biotinylated RBD was immobilized on FortéBio Streptavidin (SA) Biosensors and assayed with 25 nM of SARS-CoV-2 Spike Recombinant VHH [NM1266] (ChromoTek sc-NM1266). For comparison the binding kinetics of 25 nM SARS-CoV-2 Spike Recombinant VHH [NM1228] (ChromoTek sc-NM1228) and SARS-CoV-2 Spike Recombinant VHH [NM1230] (ChromoTek sc-NM1230) are shown.

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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