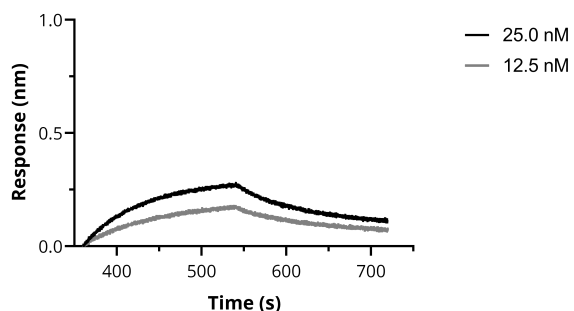


## Properties

|                                    |   |
|------------------------------------|---|
| <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>                   | NM1229 [Wagner et al. EMBO Rep. 2021 May 5;22(5):e52325. PMID: 33904225]  |
| <b>RRID</b>                        | AB_2892254  |
| <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 (<math>K_D</math>)</b> | 27 nM   |
| <b>Conjugate</b>                   | Unconjugated  |
| <b>Form</b>                        | Liquid  |
| <b>Purification Method</b>         | Recombinant expression, affinity purification by IMAC.<br><i>Note: SARS-CoV-2 Spike Recombinant VHH carries a C-terminal Myc-tag and His-tag.</i> |
| <b>Concentration</b>               | 1000 µg/mL (64.3 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<br><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<br>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 [NM1229] to RBD. Biotinylated RBD was immobilized on FortéBio Streptavidin (SA) Biosensors and assayed with different concentrations of SARS-CoV-2 Spike Recombinant VHH [NM1229] (ChromoTek sc-NM1229).*

## 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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