

Materials List for

# Detection of Neutralization-sensitive Epitopes in Antigens Displayed on Virus-Like Particle (VLP)-Based Vaccines Using a Capture Assay

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## Materials

| Name  | Company                               | Catalog Number | Comments                                  |
|---|---------------------------------------|----------------|---|
| 1.5 mL reaction tubes                                   | Eppendorf                             |                |   |
| 10x PBS   | gibco                                 | 70011044       |   |
| 4%–15% Mini-PROTEAN TGX stain-free protein gels         | BioRad                                | 4568085        |   |
| Antibodies (bnAbs)                                      | Polymun Scientific                    |                |   |
| Isotype control antibody                                | invitrogen (Thermo Fisher Scientific) | 02-7102        |   |
| Chemidoc XRS+ imaging system                            | BioRad                                | 1708265        |   |
| Chicken anti-rabbit IgG HRP-coupled                     | Life technologies                     | A15987         | 1:5000 in TBS-T + 2 % (w/v) powdered milk |
| Dynabeads Protein G Immunoprecipitation Kit             | invitrogen (Thermo Fisher Scientific) | 10007D         | includes buffers and washing solutions    |
| FreeStyle 293-F cells                                   | invitrogen (Thermo Fisher Scientific) | R790-07        |   |
| FreeStyle 293 Expression Medium                         | invitrogen (Thermo Fisher Scientific) | 12338026       |   |
| Gel blotting papers                                     | Whatman                               | GB005          |   |
| Glycine   | Carl Roth                             | 0079           | blotting buffer                           |
| Magnetic separation rack                                | New England Biolabs                   | S1509S         | for 12 x 1.5 mL or 6 x 1.5 mL tubes       |
| Methanol  | Carl Roth                             | 4627           | blotting buffer                           |
| Mini-PROTEAN Tetra Cell electrophoresis system          | BioRad                                |                |   |
| Optima XE-90 ultracentrifuge                            | Beckman Coulter                       |                |   |
| PageRuler prestained protein ladder                     | Thermo Scientific                     | 26616          |   |
| Polyvinylidene fluoride (PVDF) syringe filters, 0.45 µm | Carl Roth                             | KC89.1         |   |
| Powdered milk   | Carl Roth                             | T145           | blocking buffer                           |
| PVDF transfermembrane, 0.45 µm                          | Carl Roth                             | T830.1         |   |
| QuickTiter HIV p24 ELISA                                | Cell Biolabs                          | VPK-108-H      |   |

|   |                   |         |   |
|---|-------------------|---------|---|
| Rabbit polyclonal to HIV1 p55 + p24 + p17             | abcam             | ab63917 | 1:2000 in TBS-T + 2 % (w/v) powdered milk           |
| Rotator   | Heidolph          | REAX2   |   |
| ROTI Load 1 (laemmli buffer)                          | Carl Roth         | K929.1  | 4x concentrated reducing protein gel loading buffer |
| ROTIPHORESE 10x SDS-PAGE                              | Carl Roth         | 3060    |   |
| Sodium chloride                                       | Carl Roth         | 3957    | TBS-T buffer  |
| SuperSignal West Pico PLUS chemiluminescent substrate | Thermo Scientific | 34579   |   |
| SW28 rotor  | Beckman Coulter   |         |   |
| Thermomixer   | Cel Media         | basic   |   |
| Trans-Blot Turbo                                      | BioRad            |         |   |
| Trehalose dihydrate                                   | Carl Roth         | 8897.2  |   |
| TRIS  | Carl Roth         | 5429    | blotting buffer                                     |
| TRIS hydrochloride                                    | Carl Roth         | 9090    | TBS-T buffer  |
| Tween-20  | Carl Roth         | 9127    | TBS-T buffer  |
| Ultra Clear centrifuge tubes                          | Beckman Coulter   | 344058  |   |