**Supplementary File 1a. HDX summary table**

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| **Data Set** | **3A3 IgG** | **3A3 IgG** **+ Spike** |
| **HDX reaction details** | 200 mM NaCl, 20 mM Tris  |
| 0.5 μM 3A3 IgG  | 0.5 μM 3A30.75 μM S2 |
| pHread = 7.6 |
| **HDX time course (s)** | 10, 100, 1000 at 25°C |
| **HDX control samples** | Unlabeled 3A3 IgG |
| **Back-exchange (mean %)** | ~40 |
| **# of peptides** | 87 (heavy chain), 82 (light chain) |
| **Sequence coverage (%)** | 73.8 (heavy chain), 87 (light chain)  |
| **Average peptide length (aa)/redundancy** | 13/3.21 (heavy chain), 4.84 (light chain) |
| **Replicates (biological or technical)** | 4 (technical) |
| **Average standard deviation (Da)** | 0.15 |
| **Significance** | Average ΔHDX >0.15 Da, *p*-value<0.01 |