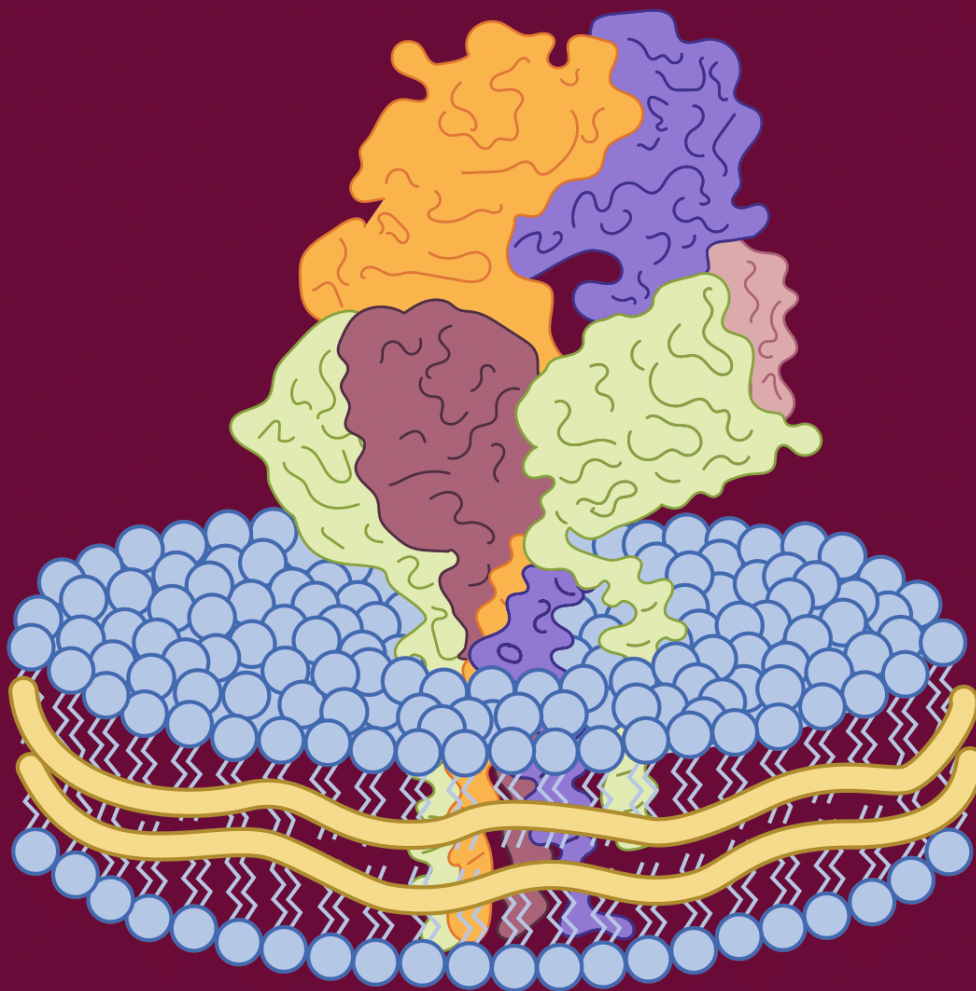


KACATUS

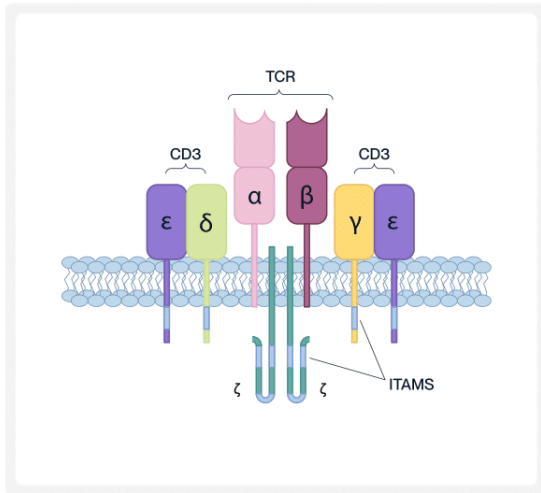
# TCR-CD3 Complex Nanodisc



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# TCR-CD3 Complex Nanodisc



CD3 is a multimeric protein complex composed of four distinct polypeptide chains: epsilon ( $\epsilon$ ), gamma ( $\gamma$ ), delta ( $\delta$ ), and zeta ( $\zeta$ ), which assemble as three pairs of dimers ( $\epsilon\gamma$ ,  $\epsilon\delta$ ,  $\zeta\zeta$ ). These CD3 molecules bind non-covalently to T-cell receptors (TCRs) to form the TCR-CD3 receptor complex on T-cell surface. Current immunization strategies using recombinant CD3 proteins alone often induce dominant antibody responses against cryptic epitopes that are not accessible on the native complex displayed on the T cell surfaces, leading to extensive failure in antibody discovery against CD3.

To move beyond the limitations of using stand-alone CD3 recombinant proteins, KACTUS has successfully developed TCR-CD3 complex nanodiscs using mammalian cells. These nanodisc products deliver CD3 clusters in a native-like environment, solving the “cryptic epitope” problem at its source, applicable for both high-efficiency animal immunization and stringent functional screening.

## Applications



Animal Immunization



Antibody Panning



Antibody Screening



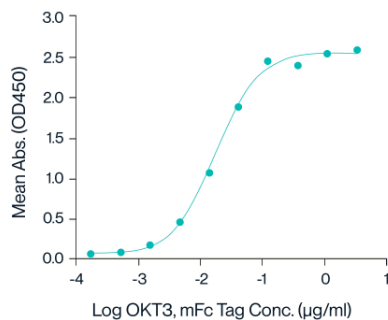
ELISA, SPR Analysis



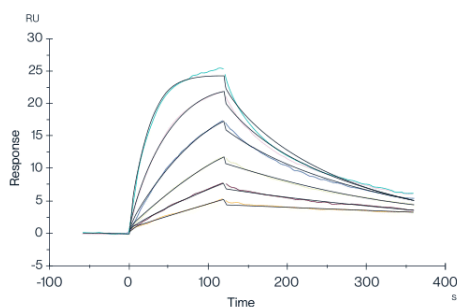
In vitro PK/PD study

## Product Performance Validation

Biotinylated Human NY-ESO-1 TCR&CD3 Complex Nanodisc, C-His Tag (TCC-HM101)

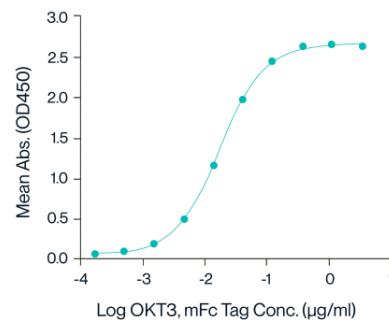


ELISA binding assay with OKT3 monoclonal antibody,  $EC_{50} = 18.3 \text{ ng/ml}$ .

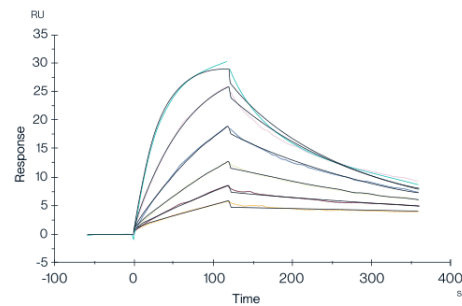


SPR analysis with OKT3 monoclonal antibody. Affinity Constant = 0.20 nM.

Biotinylated Human KRAS G12D TCR&CD3 Complex Nanodisc, C-His Tag (TCC-HM102)



ELISA binding assay with OKT3 monoclonal antibody,  $EC_{50} = 17.5 \text{ ng/ml}$ .



SPR analysis with OKT3 monoclonal antibody. Affinity Constant = 0.21 nM.

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| NB-45-00042-100 | Super NI-NTA Agarose Resin   | 100ml     |
| NB-45-00042-25  | Super NI-NTA Agarose Resin   | 25ml      |
| NB-45-00058-4   | Proteus 1 -step Batch Mini Spin Column Pack                          | 40pc      |
| NB-12-6001-3    | NeoLine pipette 2-20 µl  | 1unit     |
| NB-12-0023C     | Mini Centrifuge N500C @10,000rpm (Including 6x1.5/2.0ml angle rotor) | 1pcs      |
| NB-03-0160      | Proteinase K (Powder)  | 100mg     |
| NB-60-0001      | NeoPrep mini   | 50columns |
| NB-12-8001-19   | Combs for NeoPRO4 mini (1.5mm, 15 wells)                             | 5pieces   |
| NB-12-8001-20   | Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm)              | 5pieces   |
| NB-12-8001-04   | Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm)                | 10pieces  |

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