

Antibody-Oligo Conjugate (AOC) Pooling

The Antibody-Oligo Conjugates (AOCs) are supplied in the same concentration across all antibodies. The AOCs need to be pooled prior to start staining the cells.

For protein targets that are expected to be highly expressed, the AOCs should be **diluted in 1X DPBS prior to pooling** to prevent them from consuming the majority of sequencing reads.

We recommend diluting the following AOCs following the following table:

AOC	Dilution	Volume AOC [μ L]	Volume DPBS [μ L]
CD33	1/3	1	2
CD34	1/2	1	1
CD38	1/5	1	4
CD44	1/6	1	5
CD45	1/2	1	1
CD81	1/2	1	1
HLA-DR	1/3	1	2
HLA-DR, DP, DQ	1/6	1	5
HLA-A, B, C	1/2	1	1

Table 1. Recommended dilutions for high-expressing targets.

1. Retrieve AOCs from 4 °C and centrifuge briefly.
2. Keep the tubes on ice while preparing the AOC pool.
3. For each AOC in a new tube **pool 1 μ L of AOC** and 1X DPBS based on Table 1.
4. Store tubes with diluted AOCs at 4 °C after usage.

NOTE *The dilution factors listed in Table 1 are for reference only. Different cell types may express all or a subset of protein markers at different levels.*

For known high-expression markers, start with a dilution range of 1/2 to 1/6.

If expression level information is unavailable, pool with undiluted AOCs.

Generally, we recommend preparing the AOC pool for one Tapestri run first to evaluate the sequencing data if additional titration optimization is needed.