

## APC Anti-Human TCR Vb13.1 Antibody

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| <b>Catalog Number:</b>    | 106311, 106312                                                       |
| <b>Size:</b>              | 25 tests, 100 tests                                                  |
| <b>Target Name:</b>       | TCR Vb13.1, T cell receptor V $\beta$ 13.1 chain, TCRBV13.1, TCRBV13 |
| <b>Regulatory Status:</b> | RUO                                                                  |

### PRODUCT DETAILS

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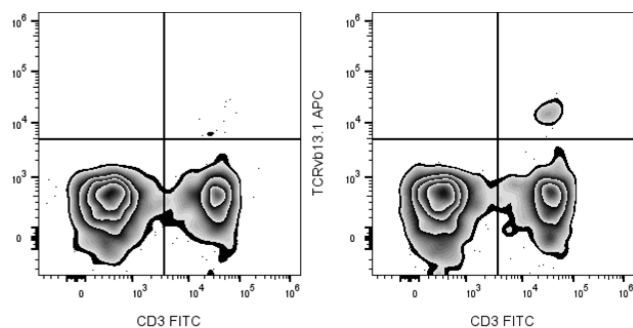
|                               |                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                 | H131                                                                                                                                                                                                                                                                                                |
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                                                                                                                                                      |
| <b>Reactivity:</b>            | Human                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>                | APC                                                                                                                                                                                                                                                                                                 |
| <b>Isotype:</b>               | Mouse IgG2b                                                                                                                                                                                                                                                                                         |
| <b>Antibody Type:</b>         | Monoclonal                                                                                                                                                                                                                                                                                          |
| <b>Formulation:</b>           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA                                                                                                                                                                                                               |
| <b>Protein Concentration:</b> | Supplied at a lot-specific concentration.                                                                                                                                                                                                                                                           |
| <b>Storage&amp;Handling:</b>  | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.                                                                                                                                                                |
| <b>Recommended Usage:</b>     | For flow cytometric staining, it is recommended to use 5 $\mu$ L of this reagent per 0.5-1.0 million cells in a 100 $\mu$ L volume. Optimal reagent performance should be determined by titration for each specific application. APC has an excitation max at 650 nm and an emission max at 660 nm. |
| <b>Excitation Laser:</b>      | Red Laser (633 nm)                                                                                                                                                                                                                                                                                  |
| <b>Isotype Control:</b>       | 301621                                                                                                                                                                                                                                                                                              |

### BACKGROUND INFORMATION

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TCR V $\beta$ 13.1 is a variant of the TCR  $\beta$  chain. The receptor is complexed with the TCR  $\alpha$  chain and belongs to the immunoglobulin superfamily. It is expressed on a subset of T cells and some T cell clones. Variability in the  $\beta$  chain is generated by V $\beta$ , D $\beta$ , and J $\beta$  gene rearrangement, while variability in the  $\alpha$  chain is generated by V $\alpha$  and J $\alpha$  rearrangement. TCR V $\beta$ 13.1 has been shown to be related to antigen recognition and inflammation as well as diseases, such as HIV and multiple sclerosis.

## PRODUCT DATA



Human peripheral blood lymphocytes stained iF488 anti-human CD3 and APC Anti-Human TCR Vb13.1 clone H131 (right panel) or APC isotype control (left panel).

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