Technical Data Sheet

# APC Mouse Anti-Human CD25

## Product Information

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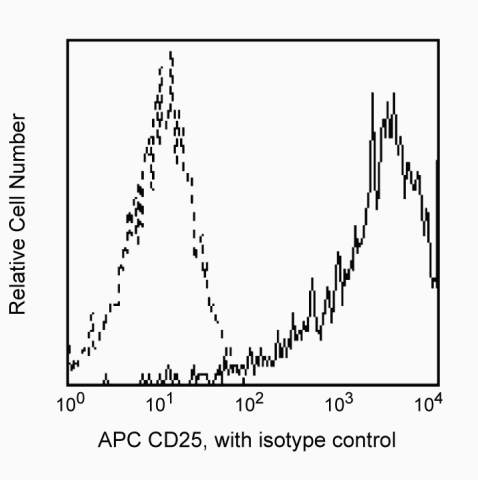
| **Material Number:** | **560987** |
| **Alternate Name:** | IL-2R; IL2RA; IL-2Rα; TCGFR; TAC antigen; p55 |
| **Size:** | 25 Tests |
| **Vol. per Test:** | 20 µl |
| **Clone:** | M-A251 |
| **Immunogen:** | Phytohemagglutinin stimulated human lymphocytes |
| **Isotype:** | Mouse (BALB/c) IgG1, κ |
| **Reactivity:** | QC Testing: Human<br>Tested in Development: Rhesus, Cynomolgus, Baboon |
| **Workshop:** | IV A053 |
| **Storage Buffer:** | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

## Description

The M-A251 monoclonal antibody specifically binds to the 55 kDa type I transmembrane glycoprotein known as low-affinity interleukin-2 receptor alpha chain subunit (IL-2Rα). CD25 is expressed on regulatory T cells, activated lymphocytes (T and B), and monocytes. It associates with the IL-2Rβ/CD122 and IL-2Rγ/CD132 receptor chains to form the high-affinity IL-2R complex. CD25 expression on T and B lymphocytes is upregulated by antigenic or mitogenic stimulation. Soluble CD25/IL-2Rα is produced as a consequence of lymphocyte stimulation and is found in biological fluids following inflammatory responses.




***Flow cytometric analysis of CD25 expression on PHA-stimulated human peripheral blood lymphocytes.*** *Phytohemagglutinin-stimulated (3 days) PBMCs were stained with either APC Mouse Anti-Human CD25 (Cat. No. 555434/561399/560987; solid line histogram) or APC Mouse IgG1 κ Isotype Control (Cat. No. 555751; dashed line histogram). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable lymphocytes. Flow cytometry was carried out on a BD FACScan™ system.*

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

## Application Notes

**Application**

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| Flow cytometry | Routinely Tested |

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 555751 | APC Mouse IgG1, κ Isotype Control | 100 Tests | MOPC-21 |
| 555434 | APC Mouse Anti-Human CD25 | 100 Tests | M-A251 |
| 554656 | Stain Buffer (FBS) | 500 mL | (none) |
| 554657 | Stain Buffer (BSA) | 500 mL | (none) |
| 561399 | APC Mouse Anti-Human CD25 | 50 Tests | M-A251 |

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## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
7. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
8. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

## References

Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens.* Oxford New York: Oxford University Press; 1989:1-1182. (Biology)
Schlossman SF. Stuart F. Schlossman .. et al., ed. *Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993.* Oxford: Oxford University Press; 1995(Biology)