

## Technical Data Sheet

### iF647 Anti-Mouse/Human CD44

**Catalog Number:** 202103, 202104

**Size:** 25 tests, 100 tests

**Target Name:** CD44, Epican, Extracellular matrix receptor III (ECMR-III), Phagocytic glycoprotein 1 (PGP-1)

**Regulatory Status:** RUO

#### Product Details

---

**Clone:** IM7

**Application:** FC

**Reactivity:** Mouse

**Format:** iF647

**Isotype:** Rat IgG2b

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA

**Protein Concentration:** Supplied at a lot-specific concentration.

**Storage&Handling:** The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

**Recommended Usage:** For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

**Excitation Laser:** Red Laser (633 nm)

**Release Date:** Nov-25

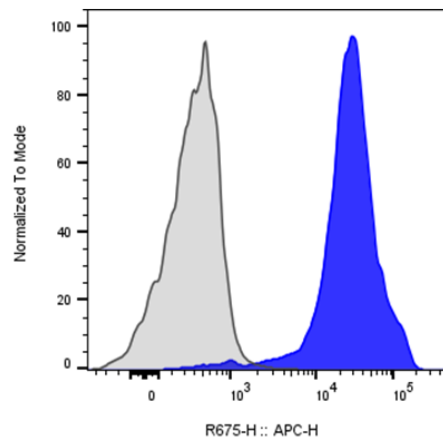
#### Background Information

---

CD44 is an 80–100 kDa type I transmembrane glycoprotein and a member of the cell adhesion molecule family. It acts as a receptor for hyaluronic acid (HA) and mediates cell-cell interactions, adhesion, migration, and signal transduction. CD44 exists in multiple isoforms generated through alternative splicing, which contributes to its functional diversity.

#### Product Data

---



Mouse splenocytes were stained either iF647 Anti-Mouse CD44 clone IM7 (color-filled histogram) or an isotype control (gray histogram).