# Purified Anti-Human/Mouse CD44 Antibody[IM7], Functional Grade

**catalog number:** **E-AB-F11000**

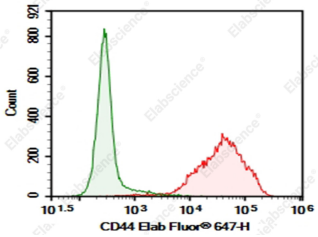
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

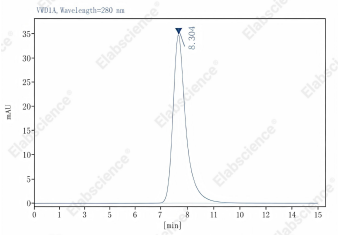
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|---|---|
| **Reactivity** | Human;Mouse |
| **Immunogen** | Recombinant Human;Mouse CD44 protein |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, κ |
| **Clone** | IM7 |
| **Purification** | > 98%, Protein A/G purified, ≥ 95% monomer by analytical SEC |
| **Endotoxin** | < 1 EU/mg determined by LAL assay |
| **Conjugation** | Unconjugated |
| **Buffer** | Sterile PBS, pH 7.2. Contains no stabilizers or preservatives |

| Applications | Recommended Dilution |
|---|---|
| **FCM** | ≤ 0.2 μg per million cells in 100 μL volume |
| **Neut** | Reported in the literature |

## Data




C57/BL6 Mouse splenocytes were stained with 0.2 μg Purified Anti-Human/Mouse CD44 Antibody[IM7], Functional Grade (Right) and 0.2 μg Rat IgG2b, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.




Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

## Preparation & Storage

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|---|---|
| **Storage** | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze/thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions. |
| **Shipping** | Ice bag |

## Background

CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. High CD44 expression on Treg cells has been associated with potent suppressive function via high production of IL-10. CD44 is an adhesion molecule involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to the sites of inflammation, and leukocyte aggregation.

None (Azide-Free, Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

## Application References

Luca G Guidotti, et al. Cell. 2015 Apr 23;161(3):486-500.