

**violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody**  
**Catalog # ATB10353****Specification****violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody - Product Information**

Application	FC
Isotype	Rat IgG2b, kappa
Concentration	0.2 mg/mL
Reactivity	Human, Mouse
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH7.2

**violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody - Additional Information**

Gene ID	12505
Gene Name	Cd44
<b>Alternative Name(s)</b>	
Pgp-1, MDU3, Hermes, Hyaluronate receptor	

**Format**

violetFluor™ 450

**Preparation**

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system. violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

**Storage Conditions**

2-8°C protected from light

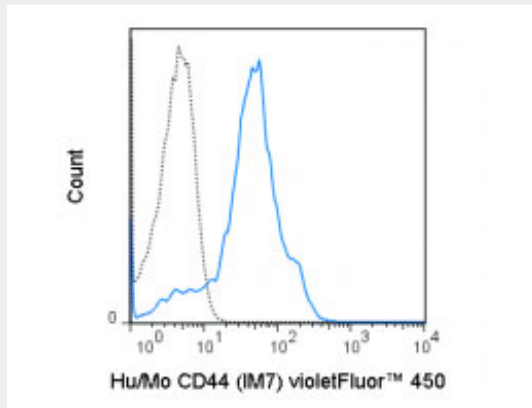
**violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

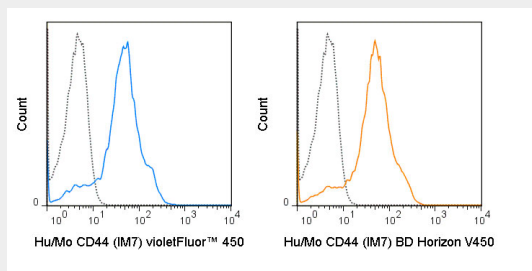
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody - Images



C57Bl/6 splenocytes were stained with 0.25 ug violetFluor™ 450 Anti-Hu/Mo CD44 (ATB10353) (solid line) or 0.25 ug violetFluor™ 450 Rat IgG2b isotype control (dashed line).



C57Bl/6 splenocytes were stained with violetFluor™ 450 Anti-Hu/Mo CD44 (IM7) manufactured by Tonbo Biosciences (left panel) or BD Horizon V450 Anti-Hu/Mo CD44 (IM7) manufactured by BD Biosciences (right panel).

### violetFluor™ 450 Anti-Human/Mouse CD44 (IM7) Antibody - Background

The IM7 antibody recognizes CD44, a ubiquitously expressed cell surface receptor which is important for extracellular matrix organization, cell-cell and cell-matrix adhesion and migration. CD44 may be expressed in a number of different isoforms (splice variants) from the most typical or "standard" form, known as CD44s, to variants designated CD44v, e.g. CD44v1 or CD44v6. These receptors interact with several ligands, but most often associate with an extracellular matrix component hyaluronate, through which it mediates adhesion. The IM7 antibody may be used for detection of all isoforms of CD44, as it recognizes constant epitopes near the extracellular proximal domain. (Xu et al, 2002, J. Leukoc. Biol. 72:1133-1141). It has been reported to be cross-reactive with many non-human species including Baboon, Chimpanzee, Cynomolgus, Rhesus, Horse, Cow, Pig, Dog and Cat CD44.