

TECHNICAL DATA SHEET

# Biotin Anti-Human/Mouse CD44 (IM7)

Catalog Number: 30-0441

## PRODUCT INFORMATION

**Contents:** Biotin Anti-Human/Mouse CD44 (IM7)

**Isotype:** Rat IgG2b, kappa

**Concentration:** 0.5 mg/mL

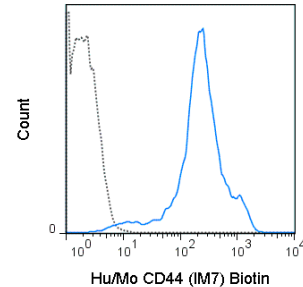
**Clone:** IM7

**Reactivity:** Human, Mouse

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1, pH7.2



C57Bl/6 splenocytes were stained with 0.5 ug Biotin Anti-Hu/Mo CD44 (30-0441) (solid line) or 0.5 ug Biotin Rat IgG2b isotype control (dashed line), followed by Streptavidin PE.

## DESCRIPTION

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.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted biotin 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). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## REFERENCES

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- Lee L-F, Logronio K, Tu GH, Zhai W, Ni I, Mei L, Dilley J, Yu J, et al. 2012. Proc. Natl. Acad. Sci. 10:1073. (Flow cytometry)
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- Miyake Y, Matsumoto H, Yokoo M, Miyazawa K et al. 2006. Biol. Reprod. 74: 501-510. (Immunohistochemistry – frozen tissue, swine)
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- Xu H, Manivannan A, Liversidge J, Sharp PF, Forrester JV, and Crane IJ. 2002. J. Leukoc. Biol. 72:1133-1141. (in vivo functional assays, induction of apoptosis)
- Si-Tahar M, Sitaraman S, Shibahara T, and Madara JL. 2001. Am. J. Physiol. Cell Physiol. 280:C423-C432. (in vitro functional assays, Western Blot)

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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