

Technical Data Sheet

FlowMAb PE anti-mouse/human CD44



Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*
Volume: Lot Specific*
Concentration: Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number: FM0039-PE
Clone: IM7
Isotype: Rat IgG2b, κ
Conjugation: PE
Excitation Source: Yellow-Green 488 nm, 532 nm, 561 nm
Excitation Max: 496 nm, 566 nm
Emission Max: 576 nm
Immunogen: Dexamethasone-induced myeloid leukemia M1 cells
Reported Applications:
Formulation: PBS, pH 7.0
Contains 0.09% Sodium Azide
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID: [AB_1107649](https://abnova.com/AB_1107649)

Description

The IM7 monoclonal antibody reacts with human and mouse CD44, also known as Hermes, HCAM, and Pgp-1. CD44 is an 80-95 kDa glycoprotein that is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As an adhesion molecule, CD44 participates in a wide variety of cellular functions, including lymphocyte activation, recirculation and homing, and hematopoiesis. CD44 is a receptor for hyaluronic acid and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Moreover, tumor metastasis involves CD44, and antibodies targeting CD44 have demonstrated a reduction in the malignant activities of various neoplasms. Interestingly, high levels of the adhesion molecule CD44 on leukemic cells are essential to generating leukemia. The IM7 antibody (also known as IM7.8.1) is often used as an anti-pan CD44 marker antibody in experiments because it recognizes a highly conserved epitope outside the HA-binding domain of all isoforms of the CD44 core protein. This R-phycoerythrin (R-PE or PE)-conjugated version of the IM7 antibody is useful for flow cytometry, immunofluorescence, immunohistochemistry (frozen), and immunohistochemistry (paraffin) applications.

Storage

Store at the stock concentration at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Protocol Information

It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

Application References

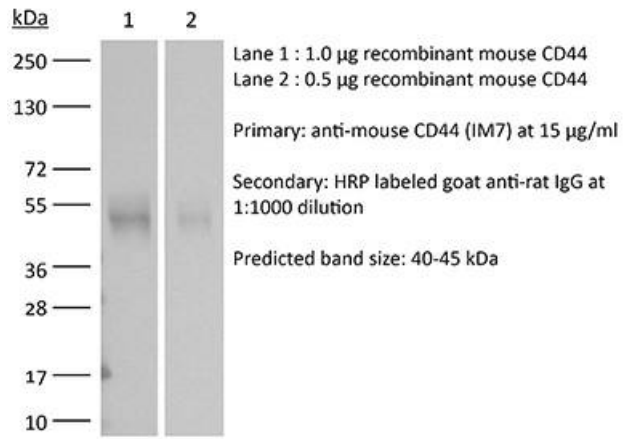
For a complete list of references, visit <https://bioxcell.com/fm0039-pe?>

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-

[bxcs=9k1b3a#tab_references](https://www.bioxcell.com/bxcs=9k1b3a#tab_references) or scan the QR code below.

mail technicalservice@bioxcell.com.



Bio X Cell, LLC
<https://bioxcell.com>
+1-866-787-3444
customerservice@bioxcell.com

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