Human/Mouse CD44
Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Rat IgG_{2B} Clone # IM7.8.1R

Catalog Number: FAB6127R

25 Tests

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CD44 in flow cytometry.
Source	Recombinant Monoclonal Rat IgG_{2B} Clone # IM7.8.1R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Myeloid leukemia M1 cells induced with Dexamethasone
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

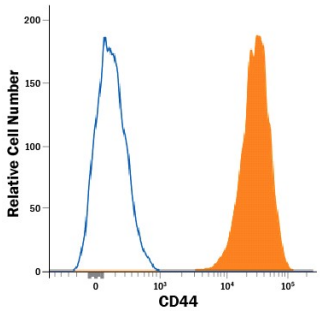
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10^6 cells	See Below

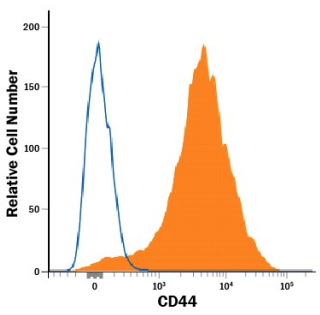
DATA

Flow Cytometry



Detection of CD44 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cell (PBMCs) were stained with Rat Anti-Human/Mouse CD44 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB6127R, filled histogram) or isotype control antibody (Catalog # IC013R, open histogram). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of CD44 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Human/Mouse CD44 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB6127R, filled histogram) or isotype control antibody (Catalog # IC013R, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD44, also known as ECMR-III, Hermes Antigen, Pgp1, Ly-24, GP90, and HUTCH-I, is a ubiquitously expressed protein that is the major receptor for hyaluronic acid (HA). CD44 mediates cell-cell and cell-matrix interaction through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagen, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Mouse CD44 has a 22 amino acid (aa) signal sequence, an extracellular domain (ECD) with a 100 aa hyaluronan-binding disulfide-stabilized link region and a 48-463 aa stem region, a 21 aa transmembrane domain, and a 72 aa cytoplasmic domain. CD44 exists as a large number of different isoforms due to alternative RNA splicing. Clone IM7.8.1 has been reported to recognize all isoforms of CD44. In the ECD, human and mouse CD44 share about 65% aa sequence identity.

PRODUCT SPECIFIC NOTICES

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