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Product datasheet for CL110F

CD44 Mouse Monoclonal Antibody [Clone ID: OX-49]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-49
Applications:	FC, IHC
Recommended Dilution:	**Flow cytometry** (See protocol). **Immunohistochemistry on Frozen Sections** and **Paraffin Sections.**
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	T cell blasts.
Specificity:	This anti-Rat CD44 monoclonal antibody recognizes an epitope on both standard CD44 and its splice variant.
Formulation:	PBS with 0.02% sodium azide as preservative and EIA grade BSA as a stabilizer Label: FITC State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G affinity chromatography
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	P26051
Background:	This antigen is expressed on most leukocytes (except a sub population of B cells) and increases upon activation. This antibody binds extracellularly to the standard (S) form on rat leukocytes, but it is not known if they bind to the N-terminal region. It has also been reported that the antibody may bind to melanoma cell lines that express CD44V (splice variant form). CD44 is expressed on most leukocytes except a sub population of B cells. Its expression is increased on T and B blasts.

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Synonyms: LHR, MDU2, MDU3, MIC4, CDw44, Epican, ECMR-III, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, PGP-1

Note: Protocol: **FLOW CYTOMETRY ANALYSIS:**

Method:
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Rat cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain $1x10^6$ cells, representing 1 test).
4. To each tube, add 1.0-0.5 µg* of CL110F or CL110FX.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

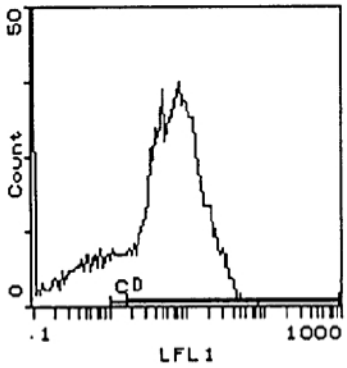
Media:
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results-Tissue Distribution:
Rat Strain: Wistar
Cell Concentration: 1 x 10e6 cells per tests
Antibody Concentration Used: 1.0 µg/10e6 cells
Isotypic Control: FITC Mouse IgG2a.

Cell Source Percentage of cells stained above control:
Thymus: 99.6%
Spleen: 75.9%
Lymph Node: 96.8%

N.B. Appropriate control samples should always be included in any labelling studies.
* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

Product images:



Cell Source: Spleen
Percentage of cells stained above control: 75.9%