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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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Technically
Speaking

CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD117 (c-kit)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8936AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL8936AP-2	Purified	500µg	1.0 mg/ml	CLCR2A00
CL8936LE	Low Endotoxin	500µg	1.0 mg/ml	CLCR2A00
CL8936B	Biotin	100µg	0.1 mg/ml	CLCR2A15
CL8936B-3	Biotin	300µg	0.1 mg/ml	CLCR2A15
CL8936F	FITC	100µg	0.1 mg/ml	CLCR2A01
CL8936F-3	FITC	300µg	0.1 mg/ml	CLCR2A01
CL8936PE	PE	50µg	0.1 mg/ml	CLCR2A04
CL8936PE-3	PE	300µg	0.1 mg/ml	CLCR2A04
CL8936AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG_{2a}

DESCRIPTION:

Cedarlane's anti-mouse CD117 monoclonal antibody recognizes the receptor tyrosine kinase, c-kit. The ligand for this receptor is steel factor (stem cell factor), which exists in both soluble and membrane form. The interaction between steel factor and c-kit is essential for the development of hematopoietic, gonadal and pigment stem cells. c-kit positive cells are a subset of CD34+ hematopoietic precursor cells and it is expressed on 5-10% of total adult bone marrow cells.

This product is suitable for use in flow cytometry, and has been reported to work in immunohistochemistry (frozen and polyester wax sections).³

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)

Biotin, FITC, PE and AF488: Biotin/FITC/PE/AF488 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

Visit our website for your local distributor.

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An ISO 9001:2000 and ISO 13485:2003
registered company.

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In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

STORAGE/STABILITY:

Store at 4°C. DO NOT FREEZE PE and AF488 conjugates. For long term storage (**Purified, LE, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: ACK4

Hybridoma Production:

Immunization: Immunogen: IL-3 dependent mast cells derived from WB- +/+ mice
Donor: Wistar spleen
Fusion Partner: X63.653. Ag8

Specificity: Mouse CD117 (c-kit)

Strains Tested: AKR, BALB/c, C3H/He, C57BL/6

Positive: AKR, BALB/c, C3H/He, C57BL/6

Negative: none

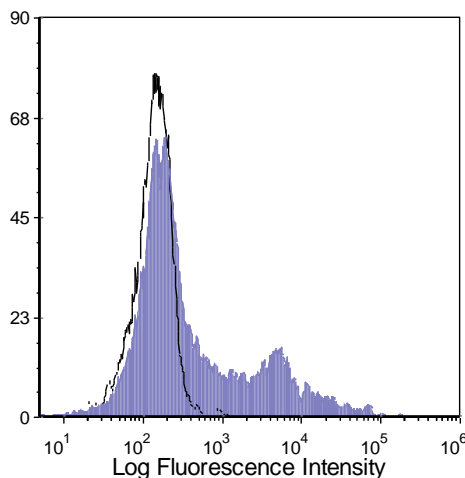
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 0.2 µg/10⁶ cells



Balb/c bone marrow was stained with anti-CD117 (clone: ACK4) (filled histogram) or rat IgG2a isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

- 1) Ogawa, M., Y. Matsuzaki, S. Nishikawa, S. Hayashi, T. Kunisada, T. Sudo, T. Kina, H. Nakauchi, S. Nishikawa. 1991. Expression and Function of c-kit in Hematopoietic Progenitor Cells. *J. Exp. Med.* 174:63-71.
- 2) Suda, T., S. Okada, J. Suda, Y. Miura, M. Ito, T. Sudo, S. Hayashi, S. Nishikawa, H. Nakauchi. 1989. A Stimulatory Effect of Recombinant Murine Interleukin-7 (IL-7) on B-Cell Colony Formation and Inhibitory Effect of IL-1 α . *Blood* 74(6):1936-1941
- 3) Kunisada, T., Lu, SZ., Yoshida, H., Nishikawa, S., Nishikawa, SI., Mizoguchi, M., Hayashi, SI., Tyrrell, L., Williams, D.A., Wang, X., Longley, B.J. 1998. Murine Cutaneous Mastocytosis and Epidermal Melanocytosis Induced by Keratinocyte Expression of Transgenic Stem Cell Factor. *J. Exp. Med.* 187(10): 1565-1573.

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