

Product datasheet for CL042BX

Kit Rat Monoclonal Antibody [Clone ID: ACK4]

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Clone Name:	ACK4
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Mouse
Host:	Rat
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	IL-3 dependent mast cells derived from WB- +/+ mice Donor: Wistar spleen Fusion Partner: X63.653. Ag8
Specificity:	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.
Formulation:	PBS containing 0.02% sodium azide (NaN3) as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Biotin
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.
Gene Name:	kit oncogene



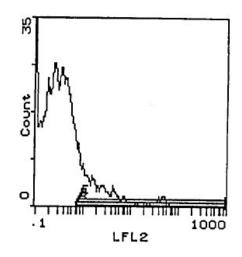
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Note: Protocol: FLOW CYTOMETRY ANALYSIS; Method: 1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M (cell separation medium). 2. Wash 2 times. 3. Resuspend the cells to a concentration of 2x10e7 cells/m1 in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test). 4. To each tube, add 0.2-0.1 mg of this antibody per 10e6 cells. 5. Vortex the tubes to ensure thorough mixing of antibody and cells. 6. Incubate the tubes for 30 minutes at 4°C. 7. Wash 2 times at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive). 10. Wash 2 times at 4°C. 11. Resuspend the cell pellet in 50 µl ice cold media B. 12. 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 2M sodium azide in 100 mls). B. Phosphate buffered saline (pH 7.2) + 5% normal serum albumin + sodium azide (100 µl 2M sodium azide in 100 mls). Results: Tissue Distribution by Flow Cytometry Analysis: Mouse Strain: C3H/He Cell Concentration: 1x10e6 cells per test Antibody Concentration Used: 0.2 µg/10e6 cells Isotypic Control: Biotin Rat IgG2a Strain Distribution by Flow Cytometry Analysis: C		Kit Rat Monoclonal Antibody [Clone ID: ACK4] – CL042BX
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Isotypic Control: Biotin Rat IgG2a Strain Distribution by Flow Cytometry Analysis: Cell Concentration: 1x10e6 cells per test Antibody Concentration Used: 0.2 mg /10e6 cells Strains Tested: AKR, BALB/c, C3H/He,	Synonyms:	 SCFR, KIT Protocol: FLOW CYTOMETRY ANALYSIS: Method: Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M (cell separation medium). Wash 2 times. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test). To each tube, add 0.2-0.1 mg of this antibody per 10e6 cells. Vortex the tubes to ensure thorough mixing of antibody and cells. Incubate the tubes for 30 minutes at 4°C. Wash 2 times at 4°C. Add 100 µl of secondary antibody (Streptavidin-PE) at a 1/250 dilution. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive). Wash 2 times at 4°C. 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. Metiai A Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls). Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls). Results: Mouse Strain: C3H/He Cell Concentration by Flow Cytometry Analysis:
Strains Tested: AKR, BALB/c, C3H/He,		Isotypic Control: Biotin Rat IgG2a Strain Distribution by Flow Cytometry Analysis: Cell Concentration: 1x10e6 cells per test
Negative: none		Strains Tested: AKR, BALB/c, C3H/He, Positive: AKR, BALB/c, C3H/He,

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