

# CD117 (c-Kit) Monoclonal Antibody (ACK2), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ACK2
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465816

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	25 Publications

## Product Specific Information

**Description:** The ACK2 monoclonal antibody reacts with mouse CD117, also known as c-Kit receptor, Steel factor receptor and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145 kDa molecule is expressed by a majority of hematopoietic progenitor cells characterized in the mouse bone marrow as a small subset of cells positive for Sca-1 and Thy1 (Thy1<sup>lo</sup>) and negative for lineage markers. The interaction of the mouse c-kit receptor and steel factor promotes the proliferation and differentiation of hematopoietic progenitor cells. CD117 is also expressed by mast cells and plays a role in signaling and activation of these cells. ACK2 has been reported to be a blocking antibody.

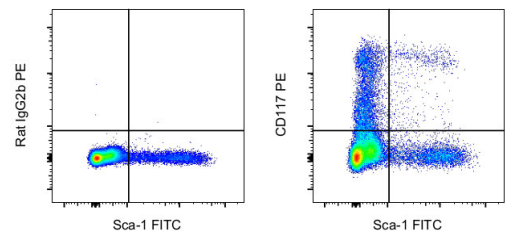
**Applications Reported:** The ACK2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The ACK2 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD117 (c-Kit) Monoclonal Antibody (ACK2), PE, eBioscience™



**CD117 (c-Kit) Antibody (12-1172-82) in Flow**  
C57BL/6 mouse bone marrow cells were stained with Mouse Hematopoietic Lineage Antibody Cocktail, eFluor 450 (Product # 88-7772-72), Sca-1 Monoclonal Antibody, FITC (Product # 11-5981-82), and 0.06 µg of Rat IgG2b kappa Isotype Control, PE (Product # 12-4031-83) (left) or 0.06 µg of CD117 (c-Kit) Monoclonal Antibody, PE (right). Cells in the Lineage low/negative gate were used for analysis.

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25 References

Flow Cytometry (25)

Cell death & disease	Year 2021
<b>The AML-associated K313 mutation enhances C/EBP activity by leading to C/EBP overexpression.</b>	
"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 12-1172-82) in Flow Cytometry"	
Authors: Gentle IE,Moelter I,Badr MT,Döhner K,Lübbert M,Häcker G	
Haematologica	Year 2021
<b>The lifespan quantitative trait locus gene <i>Securin</i> controls hematopoietic progenitor cell function.</b>	
"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 12-1172-82) in Flow Cytometry"	
Authors: Brown A,Schuetz D,Han Y,Daria D,Nattamai KJ,Eiwen K,Sakk V,Pospiech J,Saller T,van Zant G,Wagner W,Geiger H	

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