

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

Product Details	
Size	100 µg
Species	Mouse
Published Species	Fish, Mouse, Human
Expression System	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ACK2
Conjugate	APC
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469433

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	20 Publications
Functional Assay (FN)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication

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^{lo}) 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.

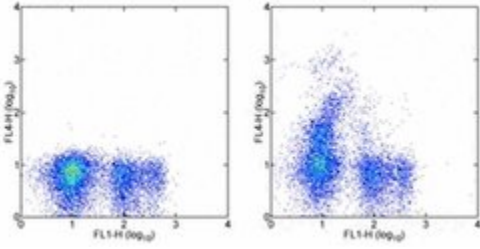
Applications Reported: The ACK2 antibody has been reported for use in flow cytometric analysis.

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 0.06 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD117 (c-Kit) Antibody (17-1172-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.03 µg of Anti-Mouse CD117 (c-Kit) APC (right). Total viable cells were used for analysis.

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Flow Cytometry (20)

Scientific reports

c-Kit⁺ Cells in Adult Salivary Glands do not Function as Tissue Stem Cells.

"17-1172 was used in Flow cytometry/Cell sorting to study whether c-Kit is a reliable marker for salivary gland stem cells."

Authors: Kwak M,Ninche N,Klein S,Saur D,Ghazizadeh S

Species
Mouse

Dilution
Not Cited

Year
2018

Cancer cell

Direct Activation of BAX by BTSA1 Overcomes Apoptosis Resistance in Acute Myeloid Leukemia.

"17-1172 was used in Flow cytometry/Cell sorting to identify BTSA1, a pharmacologically optimised BAX activator that binds with high affinity and specificity to the N-terminal activation site and induces conformational changes to BAX leading to BAX-mediated apoptosis."

Authors: Reyna DE, Garner TP, Lopez A, Kopp F, Choudhary GS, Sridharan A, Narayanagari SR, Mitchell K, Dong B, Bartholdy BA, Walensky LD, Verma A, Steidl U, Gavathiotis E

Species
Mouse

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

Nature communications

Reprogramming mouse fibroblasts into engraftable myeloerythroid and lymphoid progenitors.

"17-1172 was used in Immunocytochemistry to demonstrate how it is possible to reprogram mouse embryonic fibroblasts into engraftable blood progenitors."

Authors: Cheng H, Ang HY, A El Farran C, Li P, Fang HT, Liu TM, Kong SL, Chin ML, Ling WY, Lim EK, Li H, Huber T, Loh KM, Loh YH, Lim B

Species
Mouse

Dilution
Not Cited

Year
2016

Immunofluorescence (1)

Nature communications

Reprogramming mouse fibroblasts into engraftable myeloerythroid and lymphoid progenitors.

"17-1172 was used in Immunocytochemistry to demonstrate how it is possible to reprogram mouse embryonic fibroblasts into engraftable blood progenitors."

Authors: Cheng H, Ang HY, A El Farran C, Li P, Fang HT, Liu TM, Kong SL, Chin ML, Ling WY, Lim EK, Li H, Huber T, Loh KM, Loh YH, Lim B

Species
Mouse

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

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