

CD117 (c-Kit) Monoclonal Antibody (104D2), APC, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	104D2
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2016586

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	10 Publications

Product Specific Information

Description: The 104D2 monoclonal antibody reacts with human CD117, also known as c-Kit, Steel factor receptor and stem cell factor receptor. A member of the tyrosine kinase receptor family, this 145 kDa molecule is expressed by hematopoietic progenitor cell subsets and mast cells. The interaction of c-Kit and Steel factor promotes proliferation and differentiation of hematopoietic progenitor cells and mast cell differentiation. CD117 is also expressed by melanocytes and plays a role in signaling and activation of these cells.

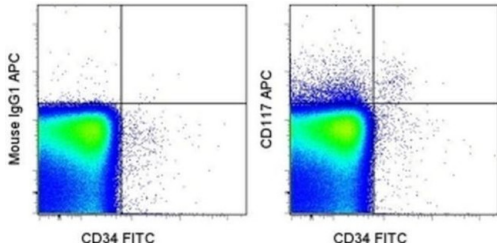
Applications Reported: This 104D2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 104D2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 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.

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 (104D2), APC, eBioscience™



CD117 (c-Kit) Antibody (17-1178-41) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD34 FITC (Product # 11-0349-42) and Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or Anti-Human CD117 (c-Kit) APC (Product # 17-1178-41) (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.cn](#)

10 References

Flow Cytometry (10)

International journal of molecular sciences

Airway and Lung Organoids from Human-Induced Pluripotent Stem Cells Can Be Used to Assess CFTR Conductance.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 17-1178-42) in Flow Cytometry"

Authors: Demchenko A, Kondrateva E, Tabakov V, Efremova A, Salikhova D, Bukharova T, Goldshtein D, Balyasin M, Bulatenko N, Amelina E, Lavrov A, Smirnikhina S

Year
2023

International journal of molecular sciences

KIT D816V Mast Cells Derived from Induced Pluripotent Stem Cells Recapitulate Systemic Mastocytosis Transcriptional Profile.

"Published figure using CD117 (c-Kit) monoclonal antibody (Product # 17-1178-42) in Flow Cytometry"

Authors: de Toledo MAS, Fu X, Maié T, Buhl EM, Götz K, Schmitz S, Kaiser A, Boor P, Braunschweig T, Chatain N, Costa IG, Brümmendorf TH, Koschmieder S, Zenke M

Year
2023

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

More applications with references on thermofisher.cn

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