

# CD85k (ILT3) Monoclonal Antibody (ZM4.1), APC, eBioscience™

## Product Details

Size	25 Tests
Published Species	Human
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	ZM4.1
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2043855

## Applications

## Tested Dilution

## Publications

Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication
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## Product Specific Information

**Description:** The monoclonal antibody ZM4.1 recognizes ILT3, also known as CD85k. ILT3 is a member of the large family of ILT molecules (Immunoglobulin-like Transcripts, Leucocyte Ig-like Receptors (LIRs) and Monocyte/Macrophage Ig-like Receptors (MIRs). ILT3 is a 60kDa transmembrane protein with two Ig domains and ITIMs. Expression is found on monocytes, macrophages, and dendritic cells. High levels of ILT3 expression is also found on plasmacytoid dendritic cells (pDCs). ILT3 expression by DCs has been shown to be required to induce Regulatory Tcells (tregs). Addition of ZM4.1, like ZM3.8, blocks the suppressive function of the Tregs in in vitro culture systems with allogenic DC's.

**Applications Reported:** This ZM4.1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This ZM4.1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

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

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

Flow Cytometry (1)

Cancer cell	Year 2020
Targeting FTO Suppresses Cancer Stem Cell Maintenance and Immune Evasion.	Species Human
"17-5139-42 was used in Flow Cytometry to demonstrate if fat mass and obesity-associated protein plays critical roles in cancer stem cell self-renewal and immune evasion."	
Authors: Su R,Dong L,Li Y,Gao M,Han L,Wunderlich M,Deng X,Li H,Huang Y,Gao L,Li C,Zhao Z,Robinson S,Tan B, Qing Y,Qin X,Prince E,Xie J,Qin H,Li W,Shen C,Sun J,Kulkarni P,Weng H,Huang H,Chen Z,Zhang B,Wu X,Olsen MJ, Müschen M,Marcucci G,Salgia R,Li L,Fathi AT,Li Z,Mulloy JC,Wei M,Horne D,Chen J	

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