

# Dendritic Cell Marker DCIR2 Monoclonal Antibody (33D1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	33D1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_2573790

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	1 Publication

## Product Specific Information

**Description:** The 33D1 monoclonal antibody reacts with a mouse dendritic cell (DC)-specific surface marker, DCIR2. The nature and biological activity of DCIR2 is unknown. DCIR2 has been reported on a variety of dendritic cell subpopulations from mouse thymus, spleen, lymph node, and Peyer's patch. Bone marrow dendritic cells require GM-CSF to express DCIR2, and this expression is downregulated in the presence of IL-4. DCIR2 has been detected in vivo in brain dendritic cells post infection with *Toxoplasma gondii*.

**Applications Reported:** This 33D1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 33D1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 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 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

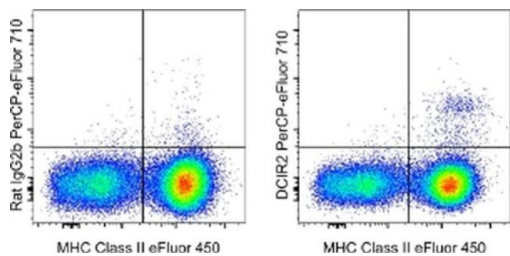
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Dendritic Cell Marker DCIR2 Monoclonal Antibody (33D1), PerCP-eFluor™ 710, eBioscience™



**Dendritic Cell Marker DCIR2 Antibody (46-5884-80) in Flow**  
Staining of mouse splenocytes with Anti-Mouse MHC Class II (I-A/I-E) eFluor® 450 (Product # 48-5321) and 0.125 µg of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (Product # 46-4031) (left) or 0.125 µg of Anti-Mouse Dendritic Cell Marker DCIR2 PerCP-eFluor® 710 (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866), were used for analysis.

2 References

Immunohistochemistry (Frozen) (1)

Science (New York, N.Y.)	Year
Differential antigen processing by dendritic cell subsets in vivo.	2007
Authors: Dudziak D,Kamphorst AO,Heidkamp GF,Buchholz VR,Trumpfheller C,Yamazaki S,Cheong C,Liu K,Lee HW, Park CG,Steinman RM,Nussenzweig MC	

Flow Cytometry (1)

Proceedings of the National Academy of Sciences of the United States of America	Year
Comparable T helper 1 (Th1) and CD8 T-cell immunity by targeting HIV gag p24 to CD8 dendritic cells within antibodies to Langerin, DEC205, and Clec9A.	2011
Authors: Idoyaga J,Lubkin A,Fiorese C,Lahoud MH,Caminschi I,Huang Y,Rodriguez A,Clausen BE,Park CG, Trumpfheller C,Steinman RM	

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