

Ly-49H Monoclonal Antibody (3D10), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	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	3D10
Conjugate	APC
Excitation/Emission Max	651/660 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_10598809

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	9 Publications

Product Specific Information

Description: The monoclonal antibody 3D10 recognizes Ly-49H, a member of the C-type lectin Ly-49 multigene family of receptors found on natural killer cells. Ly-49H, like Ly-49D, lacks the characteristic ITIM (immunoreceptor tyrosine-based inhibitory motif) and contains an arginine in the transmembrane domain implying these molecules act as activation receptors. Ly-49H is expressed in a subset of NK cells but not NKT (NK1.1CD3+) cells. Natural killer cells can express several Ly-49 proteins. It has been shown that there is preferential staining of Ly-49H with Ly-49D (cat 12-5783). Expression has been confirmed on C57BL/6 and NWN but not Balb/c or DBA/2 mice. Other mice strains have not been tested. No crossreactivity to Ly-49A, C, D or G2 has been observed. Addition of monoclonal antibody 3D10 to cell cultures induces lysis of target cells.

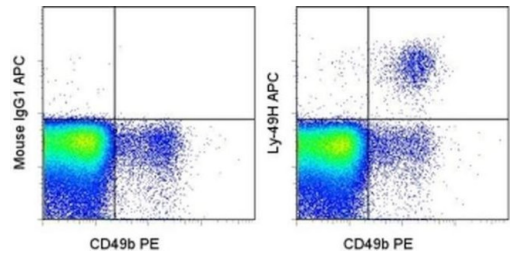
Applications Reported: This 3D10 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 3D10 antibody has been tested by flow cytometric analysis of C57BL/6 spleen cells. This can be used at less than or equal to 1 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 Ly-49H Monoclonal Antibody (3D10), APC, eBioscience™



Ly-49H Antibody (17-5886-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) PE (Product # 12-5971-82) and 0.5 µg of Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or 0.5 µg of Anti-Mouse Ly-49H APC (right). Cells in the lymphocyte gate were used for analysis.

9 References

Flow Cytometry (9)

<p>iScience</p> <p>PD-1 expression on mouse intratumoral NK cells and its effects on NK cell phenotype.</p> <p>"17-5886-82 was used in Flow cytometry/Cell sorting to demonstrate that there may be a role for the PD-1/PD-L1 axis in tumor-infiltrating NK cells in vivo."</p> <p>Authors: Wagner AK,Kadri N,Tibbitt C,van de Ven K,Bagawath-Singh S,Oliinyk D,LeGresley E,Campbell N,Trittel S, Riese P,Ribacke U,Sandalova T,Achour A,Kärre K,Chambers BJ</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Cell reports</p> <p>Hhex Directly Represses BIM-Dependent Apoptosis to Promote NK Cell Development and Maintenance.</p> <p>"17-5886 was used in Flow cytometry/Cell sorting to show homeobox transcriptional regulator Hhex regulates NK cell homeostasis and immunity."</p> <p>Authors: Goh W,Scheer S,Jackson JT,Hediyeh-Zadeh S,Delconte RB,Schuster IS,Andoniou CE,Rautela J,Degli-Esposti MA,Davis MJ,McCormack MP,Nutt SL,Huntington ND</p>	<p>Year 2020</p> <p>Species Mouse</p>

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