



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

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Туре	Antibody
Clone	3D10
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_906245

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 μg/test	10 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	Assay-Dependent	3 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 NWNA 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, and immunoprecipitation.

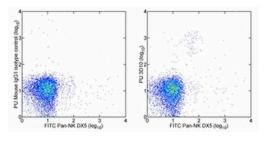
Applications Tested: This 3D10 antibody has been tested by flow cytometric analysis of C57Bl/6 mouse splenocytes. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Ly-49H Monoclonal Antibody (3D10), eBioscience™



Ly-49H Antibody (14-5886-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) FITC (Product # 11-5971) and 0.125 µg of Mouse IgG1 K Isotype Control Purified (Product # 14-4714) (left) or 0.125 µg of Anti-Mouse Ly-49H Purified (right) followed by Anti-Mouse IgG Biotin and Streptavidin APC (Product # 17-4317). Cells in the lymphocyte gate were used for analysis.

□ 14 References

Flow Cytometry (10)

Cell reports

Diverse CD8 T Cell Responses to Viral Infection Revealed by the Collaborative Cross.

"14-5886 was used in Flow cytometry/Cell sorting to advance the utility of the Collaborative Cross (CC) as a tool to analyze the immune response to viral infection."

Authors: Martin MD, Sompallae R, Winborn CS, Harty JT, Badovinac VP

Year 2020

Species Mouse

Journal of immunology (Baltimore, Md.: 1950)

NK Cell Maturation and Cytotoxicity Are Controlled by the Intramembrane Aspartyl Protease SPPL3.

"14-5886 was used in Flow cytometry/Cell sorting to investigate the role of SPPL3 in murine NK cell biology." Authors: Hamblet CE,Makowski SL,Tritapoe JM,Pomerantz JL

Year 2016

Species Mouse

View more Flow references on thermofisher.cn

Neutralization (1)

PLoS pathogens

Natural killer cells attenuate cytomegalovirus-induced hearing loss in mice.

"14-5886 was used in Functional assays to demonstrate that natural killer cell Ly49H receptor/m157 ligand interaction with cytomegalovirus infected cells attenuates hearing loss in mice."

Authors: Almishaal AA, Mathur PD, Hillas E, Chen L, Zhang A, Yang J, Wang Y, Yokoyama WM, Firpo MA, Park AH

Year 2017

Species Mouse

Functional Assay (3)

PLoS pathogens

Natural killer cells attenuate cytomegalovirus-induced hearing loss in mice.

"14-5886 was used in Functional assays to demonstrate that natural killer cell Ly49H receptor/m157 ligand interaction with cytomegalovirus infected cells attenuates hearing loss in mice."

 $Authors: Almishaal\ AA, Mathur\ PD, Hillas\ E, Chen\ L, Zhang\ A, Yang\ J, Wang\ Y, Yokoyama\ WM, Firpo\ MA, Park\ AH$

Year 2017

Species Mouse

View more FN references on thermofisher.cn

More applications with references on thermofisher.cn

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