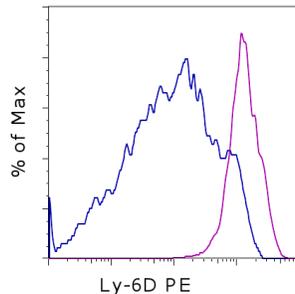


## Anti-Mouse Ly-6D PE

**Catalog Number:** 12-5974

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of C57Bl/6 (purple histogram) and BALB/c (blue histogram) splenocytes with Anti-Mouse CD19 APC (cat. 17-0193) and Anti-Mouse Ly-6D PE (right). CD19+ cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse Ly-6D PE  
**Catalog Number:** 12-5974  
**Clone:** 49-H4  
**Concentration:** 0.2 mg/mL  
**Host/Isotype:** Rat IgG2c, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.  
**Batch Code:** Refer to vial  
**Use By:** Refer to vial

### Description

This 49-H4 monoclonal antibody reacts with mouse Ly-6D, which is also known as ThB. This member of the Ly6 family of GPI-anchored cell surface glycoproteins is expressed on thymocytes and splenic B cells. Moreover, common lymphoid progenitor cells that express Ly-6D have been shown to commit to the B cell lineage. Expression of Ly-6D has also been associated with Rag-1 expression along with a reduced ability to differentiate into T or NK cells. Finally, reports indicate that the level of Ly-6D expression varies in different mouse strains.

### Applications Reported

This 49-H9 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 49-H9 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Mansson R, Zandi S, Welinder E, Tsapogas P, Sakaguchi N, Bryder D, Sigvardsson M. Single-cell analysis of the common lymphoid progenitor compartment reveals functional and molecular heterogeneity. *Blood*. 2010 Apr 1;115(13):2601-9. (**49-H4**, FC)

Inlay MA, Bhattacharya D, Sahoo D, Serwold T, Seita J, Karsunky H, Plevritis SK, Dill DL, Weissman IL. Ly6d marks the earliest stage of B-cell specification and identifies the branchpoint between B-cell and T-cell development. *Genes Dev*. 2009 Oct 15;23(20):2376-81. (**49H4**, FC)

Apostolopoulos J, McKenzie IF, Sandrin MS. Ly6d-L, a cell surface ligand for mouse Ly6d. *Immunity*. 2000 Feb;12(2):223-32.

Gumley TP, McKenzie IF, Sandrin MS. Polymorphism at the mouse Thb locus. *Immunogenetics*. 1994;39(6):390-4.

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**Catalog Number:** 12-5974

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Matossian-Rogers A, Rogers P, Ledbetter JA, Herzenberg LA. Molecular weight determination of two genetically linked cell surface murine antigens: ThB and Ly-6. Immunogenetics. 1982;15(6):591-9. **(49-H4, IP)**

### Related Products

12-4816 Anti-Rat IgG2c PE (R2C-23A3)

17-0193 Anti-Mouse CD19 APC (eBio1D3 (1D3))

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