Alexa Fluor® 700 anti-mouse CD45

Catalog # / Size: 1115640 / 100 μg

1115635 / 25 μg

Clone: 30-F11

Isotype: Rat IgG2b, κ

Immunogen: Mouse thymus or spleen

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography, and conjugated with

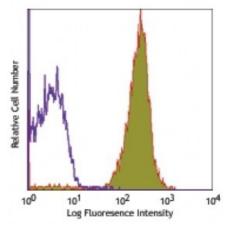
Alexa Fluor® 700 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with 30-F11 Alexa Fluor® 700

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 0.25 microg per 10^6 cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633nm / 635nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application Notes:

Clone 30-F11 reacts with all isoforms and both CD45.1 and CD45.2 alloantigens of

CD45.

Additional reported applications (for relevant formats) include: immunoprecipitation3, complement-dependent cytotoxicity^{1,5},

immunohistochemistry (acetone-fixed frozen sections, zinc-fixed paraffinembedded sections and formalin-fixed paraffin-embedded sections) 4,6 and Western blotting 7 . The LEAF $^{\text{TM}}$ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 103120).

Application References:

- 1. Podd BS, et al. 2006. J. Immunol. 176:6532. (FC, CMCD) PubMed
- 2. Haynes NM, et al. 2007. J. Immunol. 179:5099. (FC)
- 3. Ledbetter JA, et al. 1979. Immunol. Rev. 47:63. (IP)
- 4. Simon DI, et al. 2000. J. Clin. Invest. 105:293. (IHC)
- 5. Seaman WE. 1983. J. Immunol. 130:1713. (CMCD)
- 6. Cornet A, et al. 2001. P. Natl. Acad. Sci. USA 98:13306. (IHC)
- 7. Tsuboi S and Fukuda M. 1998. J. Biol. Chem. 273:30680. (WB) PubMed
- 8. Liu F, et al. 2012. Blood. 119:3295. PubMed
- 9. Pelletier AN, et al. 2012. J. Immunol. 188:5561. PubMed

Description: CD45 is a 180-240 kD glycoprotein also known as the leukocyte common antigen

(LCA), T200, or Ly-5. It is a member of the protein tyrosine phosphatase (PTP) family, expressed on all hematopoietic cells except mature erythrocytes and

platelets. There are different isoforms of CD45 that arise from variable splicing of exons 4, 5, and 6, which encode A, B, and C determinants, respectively. CD45 plays a key role in TCR and BCR signal transduction. These isoforms are very specific to the activation and maturation state of the cell as well as cell type. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.

Antigen References:

- 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Trowbridge IS, et al. 1993. Annu. Rev. Immunol. 12:85.
- 3. Kishihara K, et al. 1993. Cell 74:143.
- 4. Pulido R, <