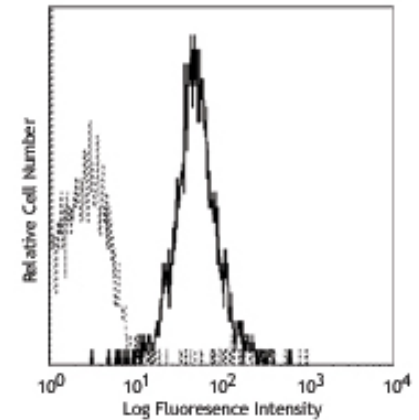


## PE anti-mouse CD178.1 (FasL)

**Catalog # / Size:** 106805 / 50 µg  
**Clone:** Kay-10  
**Isotype:** Mouse IgG2b, κ  
**Immunogen:** C57BL/6 mouse FasL cDNA-transfected L5178Y cells  
**Reactivity:** Mouse  
**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.2 mg/ml  
**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Mouse Fas Ligand transfected cells stained with Kay-10 PE

## Applications:

**Applications:** FC

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: *in vitro* blocking<sup>1,2</sup> and *in vivo* blocking<sup>3-5</sup>, and immunohistochemical staining<sup>6</sup> of formalin-fixed paraffin-embedded tissue sections. Fas Ligand is expressed at low density on activated cells. For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 106806) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 106804) or biotinylated anti-mouse IgG (Cat. No. 405303) second step, followed by SAV-PE (Cat. No. 405204)). The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm sterile-filtered) is recommended for functional assays (Cat. No. 106808).

**Application References:**

1. Kayagaki, N., *et al.*, 1997. *PNAS* 94:3914.
2. Kobata, T., *et al.*, 1997. *Immunology* 92:206.
3. Hattori, K., *et al.*, 1998. *Blood* 91:4051.
4. Takeda, Y., *et al.*, 1998. *Diabetologia* 41:315.
5. Kim, Y.-H., *et al.*, 1999. *Eur. J. Immunol.* 29:455.
6. Takeda, Y., *et al.*, 1998. *Diabetologia* 41:315.

**Description:** CD178.1 is a 40 kD Fas ligand alloantigen (designated as mFasL.1) expressed on the activated T lymphocytes, testis, and eye of selected mouse strains including C57BL/6, C3H, MRL, NOD, NZB, NZW, and SJL. It does not react with lymphoblasts from BALB/c, DBA/1, or DBA/2 mice. CD178.1 is upregulated in activated T cells upon TCR re-engagement and has been shown to induce autocrine and paracrine T cell death. CD178 expression in the eye and testis has been shown to participate in immune privilege at these sites. Functional studies suggest that mFasL.2 has higher specific activity than mFasL.1. CD178 can be cleaved from the surface by metalloproteases, and "soluble" CD178 may block the activities of membrane-bound CD178. CD178 binds to CD95 (Fas) to induce apoptotic cell death implicated in the maintenance of peripheral tolerance. CD178/CD95 interactions have been implicated in the proliferation of CD8<sup>+</sup> cells and neutrophil extravasation, chemotaxis, and survival. The Kay-10 antibody has been reported to block CD178.1/CD95 induced apoptosis in cells derived from mice expressing this alloantigen.

**Antigen References:**

1. Barclay, A., *et al.*, 1997. *The Leukocyte Antigen FactsBook*, Academic Press.
2. Nagata, S. 1999. *Annu. Rev. Genet.* 33:209.
3. Takahashi, T., *et al.*, 1994. *Cell* 76:969.
4. Hill, L.L., *et al.*, 1999. *Science* 285:898.
5. Kayagaki, N., *et al.*, 1997. *PNAS* 94:3914.

Related Products:	Product	Clone	Application
	PE anti-mouse CD178 (FasL)	MFL3	FC
	Cell Staining Buffer		FC, ICC, ICFC
	PE Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC



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