

**PE/Cyanine7 anti-human CD178 (Fas-L)**

**Catalog # / Size:** 2132085 / 25 tests  
2132090 / 100 tests

**Clone:** NOK-1

**Isotype:** Mouse IgG1, κ

**Immunogen:** L5178Y mouse T lymphoma cells expressing recombinant human FasL

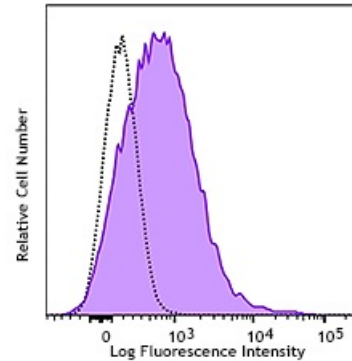
**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** VII 70322

**Concentration:** Lot-specific



Human Fas Ligand transfected cells were stained with CD178 (Fas-L) (clone NOK-1) PE/Cyanine7 (filled histogram) or mouse IgG1, κ PE/Cyanine7 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1,2</sup>, immunofluorescence microscopy<sup>3</sup>, immunocytochemistry<sup>2</sup>, blocking of Fas induced apoptosis<sup>1</sup>, and Western blotting<sup>1</sup>. 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. 2132035) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 2132020) or biotinylated anti-mouse IgG second step (Cat. No. 2626515), followed by SAv-PE (Cat. No. 2626020)). In addition, applying matrix metalloproteinases (MMPS) inhibitor in the cell culture system will increase the FasL staining intensity.

**Application  
References:**

1. Kayagaki N, et al. 1995. *J. Exp. Med.* 182:1777.
  2. Herr I, et al. 2000. *Cell Death Differ.* 7:129. (WB)
  3. Bossi G, et al. 1999. *Nature Medicine* 5:90.
  4. Andreola G, et al. 2002. *J. Exp. Med.* 195:1303.
  5. Strauss L, et al. 2009. *J. Immunol.* 182:1469. [PubMed](#)
  6. Li JH, et al. 2009. *Am J. Pathol.* 175:1124. [PubMed](#)
  7. Zhao Q, et al. 2011. *Fitoterapia.* 82:735. [PubMed](#)
  8. Kruger K, et al. 2011. *J. Appl. Physiol.* 110:1226. [PubMed](#)
  9. Qin G, et al. 2012. *J. Infect. Dis.* [PubMed](#)
  10. Khalid M, et al. 2012. *J. Virol.* 86:4906. [PubMed](#)
  11. Qin G, et al. 2012. *J. Infect. Dis.* 205:1646. [PubMed](#)
  12. Shrestha B, et al. 2012. *J. Virol.* 86:8937. [PubMed](#)
  13. Mooren FC, et al. 2012. *J. Appl. Physiol.* 113:1082. [PubMed](#)
  14. Robinet P, et al. 2014. *J Immunol.* 192:5332. [PubMed](#)
  15. Wang Y, et al. 2014. *J Endocrinol.* 222:151. [PubMed](#)
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**Description:** CD178 is a 38-42 kD type II glycoprotein also known as Fas ligand and CD95L. CD178 belongs to the TNF superfamily and is expressed on activated T lymphocytes, NK cells, monocytes, and granulocytes. CD178 is also expressed on parenchymal cells of the retina and cornea, retinal pigment epithelial cells, and testis. The extracellular region of FasL can be cleaved by matrix metalloproteinases (MMPs) to give rise to a 26 kD soluble protein. CD178 binds to CD95, a member of the TNFR superfamily, to induce apoptosis. CD95/CD95L interactions play an important role in the maintenance of peripheral tolerance and survival.

**Antigen  
References:**

1. Suda T, et al. 1997. *J. Exp. Med.* 12:204.
2. Kayagaki N, et al. 1995. *J. Exp. Med.* 182:1777.
3. Tanaka M, et al. 1995. *EMBO J.* 14:1129.