

Product Data Sheet

PE anti-human CD178 (Fas-L)

Catalog # / Size: 306406 / 25 tests
306407 / 100 tests

Clone: NOK-1

Isotype: Mouse IgG1, κ

Workshop Number: VII 70322

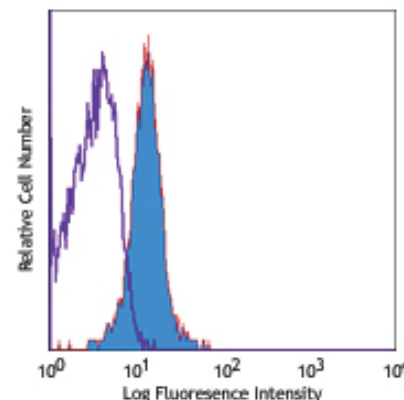
Immunogen: L5178Y mouse T lymphoma cells expressing recombinant human FasL

Reactivity: Human

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 and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human Fas Ligand transfected cells stained with NOK-1 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,2}, immunofluorescence microscopy³, immunocytochemistry², blocking of Fas induced apoptosis¹, and Western blotting¹¹. 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. 306407) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 306404) or biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by SAV-PE (Cat. No. 405204)). In addition, applying matrix metalloproteinases (MMPs) inhibitor in the cell culture system will increase the FasL staining intensity. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 306409).

- Application References:**
1. Kayagaki N, *et al.* 1995. *J. Exp. Med.* 182:1777.
 2. Andreola G, *et al.* 2002. *J. Exp. Med.* 195:1303.
 3. Bossi G, *et al.* 1999. *Nature Medicine* 5:90.
 4. Strauss L, *et al.* 2009. *J. Immunol.* 182:1469. PubMed
 5. Li JH, *et al.* 2009. *Am J. Pathol.* 175:1124. PubMed
 6. Kruger K, *et al.* 2011. *J. Appl. Physiol.* 110:1226. PubMed
 7. Qin G, *et al.* 2012. *J. Infect. Dis.* PubMed
 8. Khalid M, *et al.* 2012. *J. Virol.* 86:4906. PubMed
 9. Qin G, *et al.* 2012. *J. Infect. Dis.* 205:1646. PubMed
 10. Shrestha B, *et al.* 2012. *J. Virol.* 86:8937. PubMed
 11. Mooren FC, *et al.* 2012. *J. Appl. Physiol.* 113:1082. PubMed
 11. Herr I, *et al.* 2000. *Cell Death Differ.* 7:129. (WB)

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.

Related Products:

Product
PE anti-human CD95 (FAS)
Purified anti-human CD95 (FAS)
PE Mouse IgG1, κ Isotype Ctrl

Clone
DX2
EOS9.1
MOPC-21

Application
FC
FC
FC, ICFC



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Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



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