

Product Data Sheet

Biotin anti-human CD178 (Fas-L)

Catalog # / Size: 306403 / 25 µg
306404 / 100 µg

Clone: NOK-1

Isotype: Mouse IgG1, κ

Workshop Number: VII 70322

Immunogen: L5178Y mouse T lymphoma cells expressing recombinant human FasL

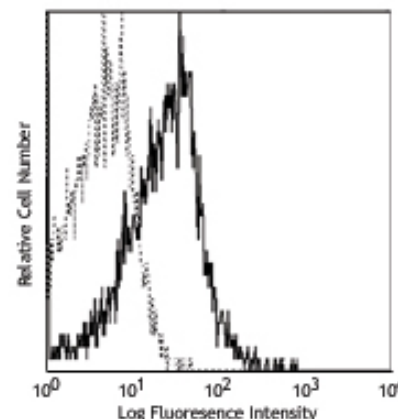
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human Fas Ligand transfected cells stained with biotinylated NOK-1 and detected with Sav-PE

Applications:

Applications: FC - Quality tested

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 ≤ 0.5 µg per 10^6 cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 306409).

Application References:

- Kayagaki N, *et al.* 1995. *J. Exp. Med.* 182:1777.
- Andreola G, *et al.* 2002. *J. Exp. Med.* 195:1303.
- Bossi G, *et al.* 1999. *Nature Medicine* 5:90.
- Strauss L, *et al.* 2009. *J. Immunol.* 182:1469. PubMed
- Li JH, *et al.* 2009. *Am J. Pathol.* 175:1124. PubMed
- Kruger K, *et al.* 2011. *J. Appl. Physiol.* 110:1226. PubMed
- Qin G, *et al.* 2012. *J. Infect. Dis.* PubMed
- Khalid M, *et al.* 2012. *J. Virol.* 86:4906. PubMed
- Qin G, *et al.* 2012. *J. Infect. Dis.* 205:1646. PubMed
- Shrestha B, *et al.* 2012. *J. Virol.* 86:8937. PubMed
- Mooren FC, *et al.* 2012. *J. Appl. Physiol.* 113:1082. PubMed
- 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:

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

Related Products:

Product	Clone	Application
Biotin anti-human CD95 (FAS)	DX2	FC
Purified anti-human CD95 (FAS)	EOS9.1	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		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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