

## LEAF™ Purified anti-human CD178 (Fas-L)

**Catalog # / Size:** 306408 / 50 µg  
306409 / 500 µg

**Clone:** NOK-1

**Isotype:** Mouse IgG1, κ

**Workshop Number:** VII 70322

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

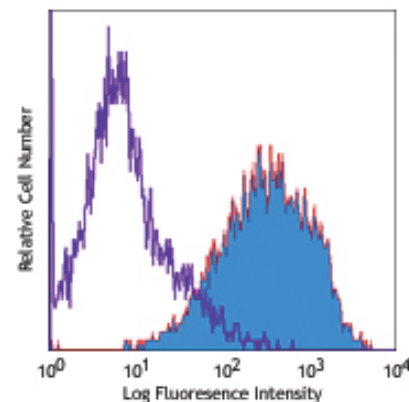
**Reactivity:** Human

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human Fas Ligand transfected cells stained with LEAF™ purified NOK-1, followed by biotinylated anti-mouse IgG and Sav-PE

## Applications:

**Applications:** FC - Quality tested  
IP, Blocks IF, ICC, WB - Reported in the literature

**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 ≤ 1.0 µg per 10<sup>6</sup> 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<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>11</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. 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

LEAF™ Purified anti-human CD95 (FAS)  
LEAF™ Purified anti-human CD95 (FAS)

### Clone

DX2  
EOS9.1

### Application

FC, IF, IHC, Apop  
FC, Apop



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LEAF™ Purified Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

MOPC-21

FC, ICFC, WB, IP, ICC, IF, FA  
FC, ICC, ICFC  
FC, ICFC



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