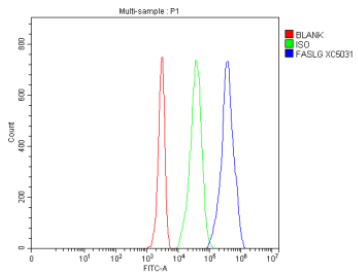
FASLG Antibody / CD178 Antibody (FY12296)

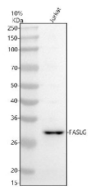
Catalog No.	Formulation	Size
FY12296	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	P48023
Applications	Western Blot: 0.25-0.5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This FASLG Antibody / CD178 Antibody is available for research use only.



FASLG Antibody Detection in Human Jurkat T Lymphocytes FACS. Flow cytometry analysis of human Jurkat T lymphocytes using FASLG Antibody shows a clear rightward fluorescence shift in the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unlabeled cells (red). Cells were fixed with 4% paraformaldehyde, blocked with 10% normal goat serum, and incubated with primary antibody at 1 ug/million cells for 30 min at 20oC. The distinct population separation demonstrates detection of Fas ligand, also known as CD178, in Jurkat cells.



FASLG Antibody Detects Fas Ligand in Human Jurkat T Lymphocytes WB. Western blot analysis of human Jurkat T-lymphocyte whole-cell lysate using FASLG Antibody shows a prominent band at approximately 31 kDa, consistent with the expected molecular weight of FASLG. Proteins were separated by 10% SDS-PAGE, transferred to nitrocellulose, and the membrane was incubated with primary antibody at 0.5 ug/ml overnight at 4oC before HRP-based detection. The major band demonstrates detection of Fas ligand/CD178 in Jurkat cell lysate, with comparatively limited additional background signal.

Description

FASLG Antibody recognizes Fas ligand, a type II transmembrane protein encoded by the FASLG gene and also known as FasL, CD178, CD95L, and TNFSF6. Fas ligand belongs to the tumor necrosis factor ligand superfamily and functions as an important regulator of receptor-mediated apoptosis. Interaction of Fas ligand with its receptor Fas (CD95) can initiate programmed cell death, providing a mechanism for controlling immune-cell populations and eliminating damaged or potentially harmful cells.

Binding of Fas ligand promotes clustering of the Fas receptor and recruitment of FADD and other components of the death-inducing signaling complex. This complex activates initiator caspase-8, which subsequently engages downstream executioner caspases responsible for the cellular changes associated with apoptosis. Fas-FasL signaling is therefore a major component of the extrinsic apoptosis pathway and contributes to immune homeostasis, cytotoxic lymphocyte function, and regulation of peripheral immune tolerance.

Fas ligand is associated with activated T lymphocytes and natural killer cells, where it contributes to the elimination of susceptible target cells. FASLG occurs as a membrane-associated protein and can also undergo proteolytic processing to generate a soluble form. Altered Fas-FasL signaling is studied in autoimmune and inflammatory disorders, cancer, immune evasion, and conditions involving abnormal lymphocyte survival. These functions make CD178 an important target for research into the molecular relationship between immune regulation and programmed cell death.

This rabbit polyclonal antibody was generated against a synthetic peptide corresponding to a sequence within the middle region of human FASLG. As a CD178 Antibody, it provides a reagent for investigating Fas ligand expression and the biological processes regulated through Fas-FasL interactions. NSJ Bioreagents supplies this antibody for research use only.

A FASLG Antibody can be used to investigate Fas ligand expression and molecular mechanisms connecting death-receptor signaling, extrinsic apoptosis, cytotoxic immune responses, and immune homeostasis.

For a Fas ligand monoclonal with exceptionally strong protein microarray target separation and complementary IHC validation, see our Fas Ligand Antibody FASLG/4455 / CD95L Antibody page.

Application Notes

Optimal dilution of the FASLG Antibody / CD178 Antibody should be determined by the researcher.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human FASL/FASLG was used as the immunogen for the FASLG antibody.

Storage

After reconstitution, the FASLG antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

FASLG antibody, FasL antibody, Fas ligand antibody, CD178 antibody, CD95L antibody, TNFSF6 antibody, tumor necrosis factor ligand superfamily member 6 antibody, APO-1 ligand antibody, Apo-1L antibody

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