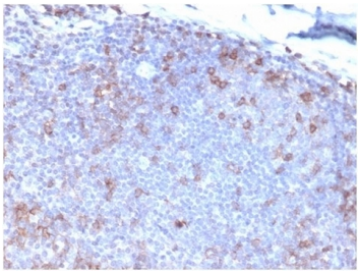
FasL Antibody FASLG/4453 / TNFSF6 Antibody [clone FASLG/4453] (V9541)

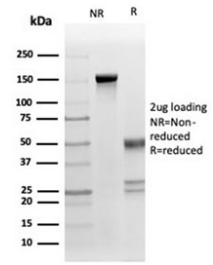
Catalog No.	Formulation	Size
V9541-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9541-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9541SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

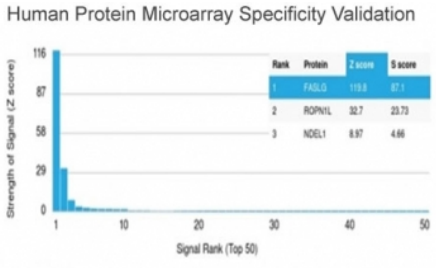
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	FASLG/4453
Purity	Protein A/G affinity
UniProt	P48023
Localization	Cell surface, Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This FasL Antibody FASLG/4453 / TNFSF6 Antibody is available for research use only.



FasL Antibody Staining of Human Tonsil Lymphocytes IHC. Immunohistochemistry staining of FFPE human tonsil tissue with FasL Antibody (clone FASLG/4453) shows distinct brown staining in subsets of lymphocytes, with positive cells distributed primarily through the peripheral portion of the lymphoid region shown. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The heterogeneous cellular staining demonstrates detection of Fas ligand, also known as TNFSF6, in human tonsil tissue.



FasL Antibody Purity and Integrity by SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free FasL Antibody (clone FASLG/4453) shows the intact antibody migrating at approximately 150 kDa under non-reducing conditions. Under reducing conditions, distinct heavy and light immunoglobulin chains are visible at approximately 50 kDa and 25 kDa, respectively. The expected migration pattern supports the integrity and purity of this TNFSF6 Antibody preparation.



FasL Antibody Protein Microarray Validated. HuProt protein microarray analysis of FasL Antibody (clone FASLG/4453) against more than 19,000 full-length human proteins identifies FASLG as the dominant target, with a Z-score of 110.8 and S-score of 87.1. The Z-score represents signal strength in standard deviations above the array mean, while the S-score measures separation from the next-ranked protein. FASLG is clearly separated from the secondary signals, providing strong evidence of preferential recognition of FASLG/TNFSF6 under the tested microarray conditions.

Description

FasL Antibody FASLG/4453 recognizes Fas ligand, a member of the tumor necrosis factor ligand superfamily encoded by the FASLG gene. Also known as CD95L, CD178, and TNFSF6, Fas ligand is a type II transmembrane protein with an important role in receptor-mediated apoptosis and immune regulation. Interaction of FasL with its receptor Fas (CD95) provides a mechanism through which cells can initiate programmed cell death in responsive target cells.

Binding of Fas ligand promotes Fas receptor clustering and assembly of the death-inducing signaling complex, which recruits intracellular adaptor proteins and initiator caspases. Activation of caspase-8 subsequently engages downstream executioner caspases responsible for many of the cellular changes associated with apoptosis. This Fas-FasL system is a major component of the extrinsic apoptosis pathway and contributes to the regulation of immune-cell survival and elimination.

Fas ligand is particularly associated with activated T lymphocytes and natural killer cells, where Fas-FasL interactions contribute to cytotoxic immune responses. The pathway also participates in peripheral immune tolerance and the control of activated lymphocyte populations. Altered FASLG expression or signaling is studied in autoimmune disease, inflammatory conditions, cancer, immune evasion, and other disorders involving abnormal regulation of apoptosis. Fas ligand can occur as a membrane-associated protein and may also be released in soluble form following proteolytic processing.

Clone FASLG/4453 is a mouse monoclonal antibody generated against a portion of amino acids 107-222 of human FASLG. The antibody has also been evaluated on a HuProt protein microarray containing more than 19,000 full-length human proteins to assess target specificity. As a TNFSF6 Antibody, clone FASLG/4453 provides a defined reagent for investigating this tumor necrosis factor ligand family member and its relationship to death-receptor signaling. NSJ Bioreagents supplies FASLG/4453 for research use only.

A FasL Antibody can be used to investigate FASLG expression and molecular mechanisms connecting extrinsic apoptosis, cytotoxic immune responses, immune homeostasis, and disease-associated cell death.

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 FasL Antibody FASLG/4453 / TNFSF6 Antibody should be determined by the researcher.

Immunogen

A portin of amino acids 107-222 from the human protein was used as the immunogen for the FasL Antibody FASLG/4453.

Storage

Aliquot the FasL Antibody FASLG/4453 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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

Copyright © NSJ Bioreagents. All rights reserved.