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[Marker Primary Antibody]

Rabbit Anti-Fas Ligand/AF594 Conjugated antibody

Catalog Number: SL0216R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Fas Ligand/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human Fas Ligand
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1μg/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Cow)
Background:	background: FasL (CD95L) is a cytokine that binds to TNFRSF6/FAS, a receptor that transduces the apoptotic signal into cells. May be involved in cytotoxic T cell mediated apoptosis and in T cell development. TNFRSF6/FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T cells, or both. Binding to the decoy receptor TNFRSF6B/DcR3 modulates its effects. Homotrimer (Probable). May be released as type II membrane protein. Belongs to the tumor necrosis factor family **Function:** Cytokine that binds to TNFRSF6/FAS, a receptor that transduces the apoptotic signal into cells. May be involved in cytotoxic T-cell mediated apoptosis and in T-cell development. TNFRSF6/FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen-stimulated suicide of mature T-cells, or both. Binding to the decoy receptor TNFRSF6B/DcR3 modulates its effects.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Subunit: Homotrimer (Probable). Interacts with ARHGAP9, BAIAP2L1, BTK, CACNB3, CACNB4, CRK, DLG2, DNMBP, DOCK4, EPS8L3, FGR, FYB, FYN, HCK, ITK, ITSN2, KALRN, LYN, MACC1, MIA, MPP4, MYO15A, NCF1, NCK1, NCK2, NCKIPSD, OSTF1, PIK3R1, PSTPIP1, RIMBP3C, SAMSN1, SH3GL3, SH3PXD2B, SH3PXD2A, SH3RF2, SKAP2, SNX33, SNX9, SORBS3, SPTA1, SRC, SRGAP1, SRGAP2, SRGAP3, TEC, TJP3 and YES1.
Subcellular Location: Cell membrane; Single-pass type II membrane protein. Secreted. Cytoplasmic vesicle lumen. Lysosome lumen. Note=May be released into the extracellular fluid, probably by cleavage form the cell surface. Is internalized into multivesicular bodies of secretory lysosomes after phosphorylation by FGR and monoubiquitination.
Post-translational modifications: N-glycosylated.
The soluble form derives from the membrane form by proteolytic processing.
Phosphorylated by FGR on tyrosine residues; this is required for ubiquitination and subsequent internalization.
Monoubiquitinated.
DISEASE: Defects in FASLG are the cause of autoimmune lymphoproliferative syndrome type 1B (ALPS1B) [MIM:601859]; also known as Canale-Smith syndrome (CSS). ALPS is a childhood syndrome involving hemolytic anemia and thrombocytopenia with massive lymphadenopathy and splenomegaly.
Similarity: Belongs to the tumor necrosis factor family.
Database links:
Entrez Gene: 356 Human
Entrez Gene: 14103 Mouse
Entrez Gene: 25385 Rat
Omim: 134638 Human
SwissProt: P48023 Human
SwissProt: P41047 Mouse
SwissProt: P36940 Rat
Unigene: 2007 Human
Unigene: 3355 Mouse
Unigene: 9725 Rat
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Fas-L is a cell factor that binds to TNFRSF6/FAS, a receptor that transduces apoptosis but positively regulates PDPK1 kinase activity by enhancing its autophosphorylation and significantly reducing the binding of PDPK1 to 14-3-

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	3 proteins. It may participate in T-cell regulated apoptosis, cell toxicity and T-cell development. Regulates apoptosis of TNFRSF6/FAS in peripheral tissue tolerance and antigen-stimulated mature lymphocyte suicide. FasL inducer Receptor TNFRSF6B/DcR3 bind regulates Its role. FasL is expressed only on activated lymphocytes, but high FasL expression is observed in mouse testis; The molecular weight is 36-43kDa. It belongs to the TNF family.

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