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Datasheet for ABIN2181073

## FASL Protein (AA 134-281) (His tag)

2 Images

1 Publication

### Overview

Quantity:	50 µg
Target:	FASL
Protein Characteristics:	AA 134-281
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FASL protein is labelled with His tag.

### Product Details

Sequence:	AA 134-281
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 17.7 kDa. The protein migrates as 25-32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

### Target Details

Target:	FASL
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## Target Details

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Alternative Name: Fas Ligand ([FASL Products](#))

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Background: Fas ligand is also known as FasL, CD178, CD95L, or TNFSF6, is a homotrimeric type-II transmembrane protein that belongs to the tumor necrosis factor (TNF) family. Its binding with its receptor induces apoptosis. Fas ligand/receptor interactions play an important role in the regulation of the immune system and the progression of cancer. Mature human Fas Ligand consists of a 179 amino acid (aa) extracellular domain (ECD), a 22 aa transmembrane segment, and a 80 aa cytoplasmic domain. Within the ECD, human Fas Ligand shares 81 % and 78 % aa sequence identity with mouse and rat Fas Ligand, respectively. Apoptosis triggered by Fas-Fas ligand binding plays a fundamental role in the regulation of the immune system. Its functions include: T-cell homeostasis, cytotoxic T-cell activity, immune privilege, maternal tolerance, tumor counterattack. Defective Fas-mediated apoptosis may lead to oncogenesis as well as drug resistance in existing tumors. Germline mutation of Fas is associated with autoimmune lymphoproliferative syndrome (ALPS), a childhood disorder of apoptosis.

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Molecular Weight: 18.8 kDa

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Pathways: [Apoptosis](#), [EGFR Signaling Pathway](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: PBS, pH 7.4

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Handling Advice: Please avoid repeated freeze-thaw cycles.

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Storage: -20 °C

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Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

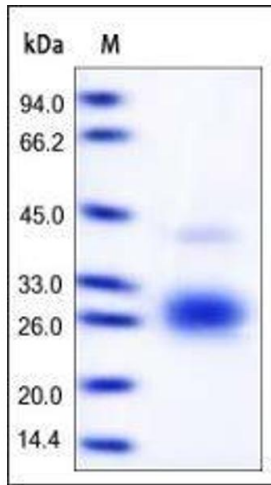
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## Publications

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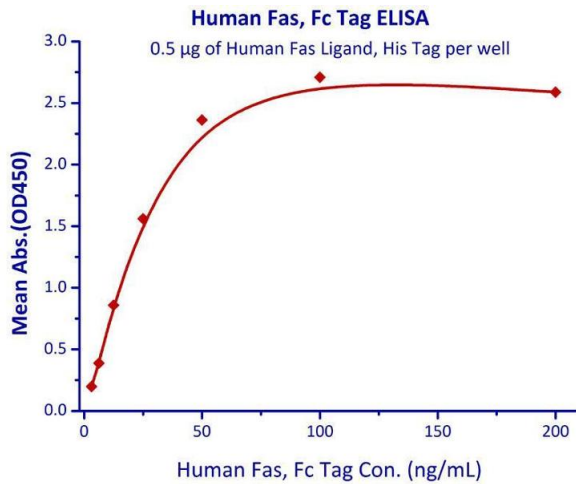
Product cited in: Cirka, Monterosso, Diamantides, Favreau, Wen, Billiar: "Active Traction Force Response to Long-Term Cyclic Stretch Is Dependent on Cell Pre-stress." in: **Biophysical journal**, Vol. 110, Issue 8, pp. 1845-1857, (2017) ([PubMed](#)).

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### SDS-PAGE

**Image 1.** Human Fas Ligand, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



### Binding Studies

**Image 2.** Immobilized Human Fas Ligand, His Tag with a linear range of 1.56-12.5 ng/mL.