

## ARG65522 anti-CD178 / Fas Ligand antibody [NOK-1]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [NOK-1] recognizes CD178 / Fas Ligand
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, ICC/IF, IP, WB
Specificity	The mouse monoclonal antibody NOK1 recognizes CD178 / FasL, an approximately 40 kDa transmembrane glycoprotein expressed on neutrophils, monocytes, and activated T and NK cells.  HCDM Workshop: VII 70322
Host	Mouse
Clonality	Monoclonal
Clone	NOK-1
Isotype	IgG1
Target Name	CD178 / Fas Ligand
Species	Human
Immunogen	L5178Y mouse T lymphoma cells expressing recombinant human CD178
Conjugation	Un-conjugated
Alternate Names	FASLG; Fas Ligand; APT1LG1; TNFSF6; CD178; FasL; Tumor Necrosis Factor Ligand Superfamily Member 6; Fas Ligand (TNF Superfamily, Member 6); Apoptosis Antigen Ligand; Fas Antigen Ligand; CD95 Ligand; CD95-L; CD95L; APTL; FASL; Tumor Necrosis Factor (Ligand) Superfamily, Member 6; Mutant Tumor Necrosis Factor Family Member 6; Apoptosis (APO-1) Antigen Ligand 1; Tumor Necrosis Factor Ligand 1A; CD178 Antigen; ALPS1B; TNLG1A

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	Functional studies: Blocking. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

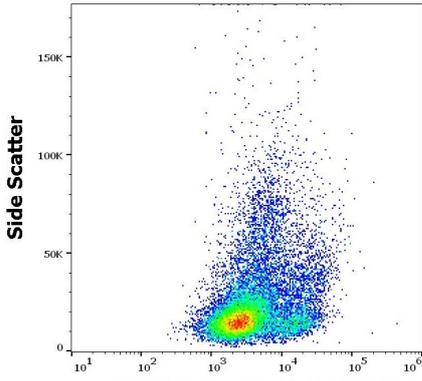
### Properties

Form	Liquid
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Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

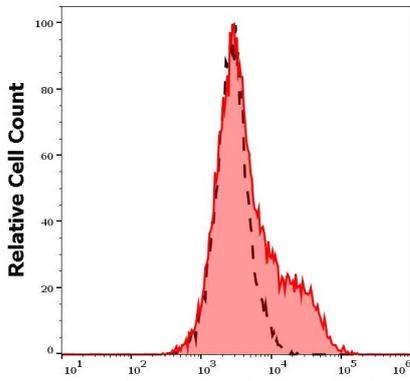
Database links	<a href="#">GeneID: 356 Human</a> <a href="#">Swiss-port # P48023 Human</a>
Gene Symbol	FASLG
Gene Full Name	Fas ligand (TNF superfamily, member 6)
Background	CD178 / Fas-L (Fas ligand, CD95L), a member of TNF family transmembrane glycoproteins, is responsible for induction of apoptosis in cells containing its receptor CD95 / Fas. The CD178-mediated apoptosis pathway has been implicated in peripheral tolerance, tissue pathology, and maintenance of the immune privileged sites. Defects in this interaction may be related to some cases of systemic lupus erythematosus (SLE). CD178 was also described as a co-stimulatory receptor for T-cell activation in mice in vivo.
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. The FasL intracellular domain (FasL ICD) cytoplasmic form induces gene transcription inhibition. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Developmental Biology antibody; Immune System antibody
Calculated Mw	31 kDa
PTM	The soluble form derives from the membrane form by proteolytic processing. The membrane-bound form undergoes two successive intramembrane proteolytic cleavages. The first one is processed by ADAM10 producing an N-terminal fragment, which lacks the receptor-binding extracellular domain. This ADAM10-processed FasL (FasL APL) remnant form is still membrane anchored and further processed by SPPL2A that liberates the FasL intracellular domain (FasL ICD). FasL shedding by ADAM10 is a prerequisite for subsequent intramembrane cleavage by SPPL2A in T-cells. N-glycosylated (PubMed:9228058). Glycosylation enhances apoptotic activity (PubMed:27806260). Phosphorylated by FGR on tyrosine residues; this is required for ubiquitination and subsequent internalization. Monoubiquitinated.



ARG65522 anti-CD178 / Fas Ligand antibody [NOK-1] FACS image

Flow Cytometry: FasL transfected L5178Y cells stained with ARG65522 anti-CD178 / Fas Ligand antibody [NOK-1] at 9  $\mu\text{g}/\text{ml}$  dilution, followed by APC-conjugated Goat anti-Mouse antibody.

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ARG65522 anti-CD178 / Fas Ligand antibody [NOK-1] FACS image

Flow Cytometry: Separation of unstained (black-dashed) and stained (red-filled) FasL transfected L5178Y cells. Cells were stained with ARG65522 anti-CD178 / Fas Ligand antibody [NOK-1] at 9  $\mu\text{g}/\text{ml}$  dilution, followed by APC-conjugated Goat anti-Mouse antibody.

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