ARG54289
anti-CD178 / Fas Ligand antibody [NOK-1] (PE)

Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [NOK-1] recognizes CD178 / Fas Ligand
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone NOK-1 recognizes CD178 / Fas-L, 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	PE
Alternate Names	FasL ICD; SPPL2A-processed FasL form; Apoptosis antigen ligand; CD95 ligand; CD178; Fas antigen ligand; CD95-L; Receptor-binding FasL ectodomain; FasL; SPA; TNFSF6; CD95L; FASL; Fas ligand; APTL; APT1LG1; ALPS1B; sFasL; Soluble Fas ligand; Tumor necrosis factor ligand superfamily member 6; APL; CD antigen CD178

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

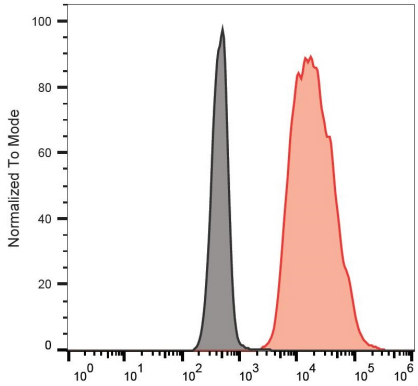
Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA

Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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	GeneID: 356 Human Swiss-port # P48023 Human
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.

Images



ARG54289 anti-CD178 / Fas Ligand antibody [NOK-1] (PE) FACS image

Flow Cytometry: Separation of CD178 transfected L5178Y cells (red) from non-transfected L5178Y cells (black-dashed). Cells were stained with ARG54289 anti-CD178 / Fas Ligand antibody [NOK-1] (PE) at 1 µg/ml dilution.