

11-754-C100

Monoclonal Antibody to CD178 / Fas-L Purified Antibody (0.1 mg)

Clone:	NOK-1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody 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
Regulatory Status:	RUO
Immunogen:	L5178Y mouse T lymphoma cells expressing recombinant human CD178
Species Reactivity:	Human
Application:	Flow Cytometry Immunoprecipitation Western Blotting Immunocytochemistry Functional Application blocking
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.

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Antibodies

- References:**
- *Kayagaki N, Kawasaki A, Ebata T, Ohmoto H, Ikeda S, Inoue S, Yoshino K, Okumura K, Yagita H: Metalloproteinase-mediated release of human Fas ligand. *J Exp Med.* 1995 Dec 1;182(6):1777-83.
 - *Jodo S, Pidiyar VJ, Xiao S, Furusaki A, Sharma R, Koike T, Ju ST: Fas ligand (CD178) cytoplasmic tail is a positive regulator of Fas ligand-mediated cytotoxicity. *J Immunol.* 2005 Apr 15;174(8):4470-4.
 - *Ghadimi MP, Sanzenbacher R, Thiede B, Wenzel J, Jing Q, Plomann M, Borkhardt A, Kabelitz D, Janssen O: Identification of interaction partners of the cytosolic polyproline region of CD95 ligand (CD178). *FEBS Lett.* 2002 May 22;519(1-3):50-8.
 - *Chopin D, Barei-Moniri R, Maillé P, Le Frère-Belda MA, Muscatelli-Groux B, Merendino N, Lecerf L, Stoppacciaro A, Velotti F: Human urinary bladder transitional cell carcinomas acquire the functional Fas ligand during tumor progression. *Am J Pathol.* 2003 Apr;162(4):1139-49.
 - *Ji J, Chen JJ, Braciale VL, Cloyd MW: Apoptosis induced in HIV-1-exposed, resting CD4+ T cells subsequent to signaling through homing receptors is Fas/Fas ligand-mediated. *J Leukoc Biol.* 2007 Jan;81(1):297-305.

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