



11-777-C100

Monoclonal Antibody to CD112 Purified Antibody (0.1 mg)

Clone:	R2.525
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody R2.525 recognizes CD112, a type I transmembrane glycoprotein expressed by myelomonocytic and megakaryocytic cells, and by CD34+ hematopoietic progenitors.
Regulatory Status:	RUO
Immunogen:	NIH/3T3 cells transfected with human Nectin-2
Species Reactivity:	Human
Application:	Flow Cytometry Immunoprecipitation Immunohistochemistry (frozen sections)
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:	CD112, also known as nectin-2, is a transmembrane glycoprotein involved in organization of adherens junctions. It also serves as a target molecule for entry of certain strains of herpes simplex virus (HSV) and pseudorabies virus (PRV). It is homologous to CD155, which serves as a target molecule for polio virus. CD112 seems to play a role in neural tube formation, with N-cadherin. Inside the cell, CD112 is connected with actin cytoskeleton through afadin. Variations in the CD112 gene have been associated with differences in the severity of multiple sclerosis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

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Antibodies

References:

*Enqvist M, Nilsson G, Hammarfjord O, Wallin RP, Björkström NK, Björnstedt M, Hjerpe A, Ljunggren HG, Dobra K, Malmberg KJ, Carlsten M: Selenite induces posttranscriptional blockade of HLA-E expression and sensitizes tumor cells to CD94/NKG2A-positive NK cells. *J Immunol.* 2011 Oct 1;187(7):3546-54.

Nielsen N, Ødum N, Ursø B, Lanier LL, Spee P: Cytotoxicity of CD56(bright) NK cells towards autologous activated CD4+ T cells is mediated through NKG2D, LFA-1 and TRAIL and dampened via CD94/NKG2A. *PLoS One.* 2012;7(2):e31959.

*Carlsten M, Björkström NK, Norell H, Bryceson Y, van Hall T, Baumann BC, Hanson M, Schedvins K, Kiessling R, Ljunggren HG, Malmberg KJ: DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells. *Cancer Res.* 2007 Feb 1;67(3):1317-25.

*Hou S, Ge K, Zheng X, Wei H, Sun R, Tian Z: CD226 protein is involved in immune synapse formation and triggers Natural Killer (NK) cell activation via its first extracellular domain. *J Biol Chem.* 2014 Mar 7;289(10):6969-77.

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