

TECHNICAL DATA SHEET

CyFlow™ CD112 Purified Anti-Hu; Clone R2.525

REF BH970059

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD112
Alternative Names	PRR2, Nectin-2, Hve B, HVEB
Clone	R2.525
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	< no data >

Specificity

The mouse monoclonal antibody R2.525 recognizes CD112 antigen, a type I transmembrane glycoprotein expressed by myelomonocytic and megakaryocytic cells, and by CD34+ hematopoietic progenitors.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry (frozen sections)

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD112 (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.

References

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- 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. < PMID: 21890659 >

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- 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. < PMID: 22384114 >
- 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. < PMID: 24451371 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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