

1P-780-T025

Monoclonal Antibody to CD111 Phycoerythrin (PE) conjugated (25 tests)

Clone:	R1.302
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody R1.302 recognizes CD111 (also known as Nectin 1), a 75 kDa type I transmembrane glycoprotein broadly expressed on endothelial cells, epithelial cells, neuronal cells, megakaryocytes, and CD34-positive stem cells.
Regulatory Status:	RUO
Immunogen:	NIH/3T3 cells transfected with human CD111
Species Reactivity:	Human
Preparation:	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.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD111, also known as nectin-1, is a calcium-independent cell-cell adhesion transmembrane glycoprotein involved in organization of adherens junctions and tight junctions in epithelial and endothelial cells. It also serves as a target molecule for entry of herpes simplex virus (HSV-1, HSV-2) and pseudorabies virus (PRV) into epithelial and neuronal cells. CD111 is connected with actin cytoskeleton through afadin. Mutations in the gene for CD111 cause cleft lip and palate/ectodermal dysplasia 1 syndrome (CLPED1) as well as non-syndromic cleft lip with or without cleft palate (CL/P). Alternative splicing results in multiple transcript variants encoding proteins with distinct C-termini.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

- *Cocchi F, Lopez M, Dubreuil P, Campadelli Fiume G, Menotti L: Chimeric nectin1-poliiovirus receptor molecules identify a nectin1 region functional in herpes simplex virus entry. *J Virol.* 2001 Sep;75(17):7987-94.
- *Cocchi F, Lopez M, Menotti L, Aoubala M, Dubreuil P, Campadelli-Fiume G: The V domain of herpesvirus Ig-like receptor (HIgR) contains a major functional region in herpes simplex virus-1 entry into cells and interacts physically with the viral glycoprotein D.
- *Cocchi F, Lopez M, Dubreuil P, Campadelli Fiume G, Menotti L: Chimeric nectin1-poliiovirus receptor molecules identify a nectin1 region functional in herpes simplex virus entry. *J Virol.* 2001 Sep;75(17):7987-94.
- *Reymond N, Garrido-Urbani S, Borg JP, Dubreuil P, Lopez M: PICK-1: a scaffold protein that interacts with Nectins and JAMs at cell junctions. *FEBS Lett.* 2005 Apr 11;579(10):2243-9.
- *Yoon M, Spear PG: Disruption of adherens junctions liberates nectin-1 to serve as receptor for herpes simplex virus and pseudorabies virus entry. *J Virol.* 2002 Jul;76(14):7203-8.

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