

Product datasheet for **AM26703RP-N**

DEP1 (PTPRJ) (1-444) Mouse Monoclonal Antibody [Clone ID: MEM-CD148/05]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-CD148/05
Applications:	FC
Recommended Dilution:	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 (1 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant CD148 (amino acids 1-444)
Specificity:	This antibody recognizes CD148, a highly glycosylated up to 250 kDa receptor-like protein tyrosin phosphatase expressed mainly in lymphocytes, myeloid cells and epithelial cells.
Formulation:	PBS Label: PE State: Liquid Ig fraction Stabilizer: 0.2% (w/v) high-grade protease free BSA Preservative: 15 mM Sodium Azide Label: 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.
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type J
Database Link:	Entrez Gene 5795 Human Q12913



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Background:

CD148 (also known as HPTP-eta or DEP-1) is a transmembrane protein tyrosin phosphatase containing eight fibronectin type III extracellular domains. This protein is known to inhibit transduction of mitogenic signals in non-hematopoietic cells (fibroblasts, epithelial cells), and signal transduction downstream of T cell receptor, however, it also augments immunoreceptor signaling in B cells and macrophages via dephosphorylating C-terminal tyrosine of Src-family tyrosine kinases. CD148 expression increases after in vitro activation of peripheral blood leucocytes. It can be also used as marker of the most mature human thymocytes, and leukemic cells corresponding to this stadium of thymocyte differentiation. In contrast, in mice the CD148 expression sharply drops through the double positive stage to the single positive thymocytes.

Synonyms:

DEP1, DEP-1, HPTP eta, R-PTP-eta, Protein-tyrosine phosphatase eta, R-PTP-J