

## Monoclonal Antibody to CD312 (EMR2) - PE

<b>Alternate names:</b>	EGF-like module EMR2, EGF-like module-containing mucin-like hormone receptor-like 2
<b>Catalog No.:</b>	SM2212RT
<b>Quantity:</b>	25 Tests
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	EMR2 is a member of the epidermal growth factor-seven transmembrane (EGF-TM7) family of proteins, which is closely related to CD97. EMR2, also known as CD312, is predominantly expressed on myeloid dendritic cells, monocytes and tissue macrophages. Various isoforms of EMR2 have been documented. The ligand for the largest isoform of EMR2 has recently been identified as chondroitin sulphate, which binds to the fourth EGF-like module of EMR2.
<b>Uniprot ID:</b>	<a href="#">Q9UHX3</a>
<b>NCBI:</b>	<a href="#">NP_038475.2</a>
<b>GeneID:</b>	<a href="#">30817</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	2A1
<b>Immunogen:</b>	NIH-3T3 cells stably transfected with EMR2 (EGF1-5) cDNA. Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 0.25 ml distilled water.
<b>Applications:</b>	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises EMR2. Clone 2A1 specifically recognises the stalk region of EMR2. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

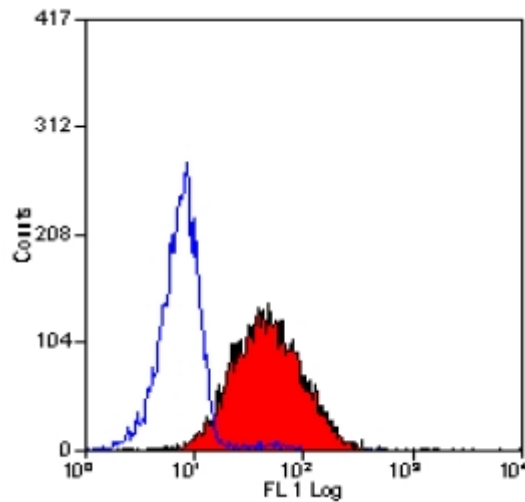
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- General References:**
1. Kwakkenbos. M.J. et al. (2002) The human EGF-TM7 family member EMR2 is a heterodimeric receptor expressed on myeloid cells. *J. Leukoc. Biol.*71:854-862.
  2. Stacey. M. et al. (2003) The epidermal growth factor-like domains of the human EMR2 receptor mediate cell attachment through chondroitin sulphate glycosaminoglycans. *Blood.*102:2916-2924.
  3. Kwakkenbos. M.J. et al. (2004) The EGF-TM7 family: a postgenomic view. *Immunogenetics.* 55:655-666.

**Pictures:**



Staining of human peripheral blood granulocytes with Mouse Anti Human CD312-RPE (SM2212RT).

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