

## Monoclonal Antibody to CD21 - PE

<b>Alternate names:</b>	C3DR, C3d receptor, CR2, Complement C3d receptor, Complement receptor type 2, Dendritic Cell Marker, EBV Receptor, Epstein-Barr virus receptor
<b>Catalog No.:</b>	AM08109RP-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD21 also known as complement receptor 2 (CR2), C3d receptor or EBV receptor is a 140 kDa protein. CD21 is a glycosylated type I transmembrane protein consisting of an extracellular face of a series of 15 or 16 CCP domains. CD21 is the receptor for complement components C3d and iC3b as well as the Epstein-Barr virus (EBV) glycoprotein gp350/220. The soluble CD21 (sCD21) was shown to efficiently trigger CD23 signalling pathways in human monocytes. By inducing release of proinflammatory cytokines and upregulating expression of molecules involved in antigen presentation, sCD21 modulates critical monocyte functions that may be relevant to allergic and inflammatory disorders.
<b>Uniprot ID:</b>	<a href="#">P20023</a>
<b>NCBI:</b>	<a href="#">NP_001006659</a>
<b>GeneID:</b>	<a href="#">1380</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	BB6-11C9.6
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. <b>Label:</b> PE – R-Phycoerythrin
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 0.2 µg/10e6 cells. (Ref.2-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to Porcine CD21 (Mr. 160 kDa). It stains the following percentages of surface immunoglobulin (sIg) positive cells in porcine lymphoid tissues: 92-96% in peripheral blood; 74-98% in mesenteric lymph nodes; 97-100% in ileal Peyer's patches (ILPP); 93-97% in spleen; and 0% in thymus. The antibody does not stain B cells in cord blood or spleen from pig fetuses (105 days gestation). Does not stain B cells in cord blood or spleen from pig fetuses (105 days gestation). <b>Species:</b> Pig. Other species not tested.

**Storage:**

Store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

1. Tedder T.F., L.T. Clement, and Cooper M.D.. Expression of C3d receptors during human B cell differentiation:

Immunofluorescence analysis with the HB-5 monoclonal antibody. J Immunol. 1984;133:678.

2. Denham, S., R.J. Zwart, J.T.D. Whittall, M. Pampusch, A.H. Corteyn, A.T.J. Bianchi, M.P. Murtaugh, R.M.E. Parkhouse, H.

Taskalova, J. Sinkora, M. Siinkora, and Z. Rehakova. 1998. Monoclonal antibodies putatively identifying porcine B cells.

Veter. Immunol. Immunopathol. 60:317-328.

3. Pescovitz, M. Personal communication.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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