

## Monoclonal Antibody to SLA CLASS II DR - FITC

<b>Alternate names:</b>	MHC Class II DR
<b>Catalog No.:</b>	AM05887FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Clone:</b>	2E9/13
<b>Immunogen:</b>	Porcine monocytes. <b>Remarks:</b> Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified Ig 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> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 1x10 <sup>6</sup> cells in 100 µl. <b>Functional Assays:</b> Clone 2E9/13 is reported to inhibit the mixed lymphocyte reaction and T cell stimulation induced by African swine fever virus and staphylococcal enterotoxin B (Ref.1). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific for Porcine MHC Class II DR molecules (SLA-II DR). Porcine SLA-II molecules are expressed on all B cells, on antigen presenting cells and on certain subsets of resting and activated T cells. This clone reacts with lymphocytes from all outbred and miniature Pigs so far tested, suggesting that it recognises a monomorphic determinant of Porcine SLA-II DR. This antibody immunoprecipitates a heterodimer composed of two polypeptides of 28 and 35kD from NP-40 extracts of biotin surface-labelled porcine peripheral blood mononuclear cells. <b>Species:</b> Pig. Cross reacts with Bovine. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Bullido R, Doménech N, Alvarez B, Alonso F, Babín M, Ezquerra A, et al. Characterization of five monoclonal antibodies specific for swine class II major histocompatibility antigens

and crossreactivity studies with leukocytes of domestic animals. Dev Comp Immunol. 1997 May-Jun;21(3):311-22. PubMed PMID: 9258612.

2. Jeong HJ, Song YJ, Lee SW, Lee JB, Park SY, Song CS, et al. Comparative measurement of cell-mediated immune responses of swine to the M and N proteins of porcine reproductive and respiratory syndrome virus. Clin Vaccine Immunol. 2010 Apr;17(4):503-12. doi: 10.1128/CVI.00365-09. Epub 2010 Feb 3. PubMed PMID: 20130128.

3. Ding Q, Lu L, Zhou X, Zhou Y, Chou KY. Human PD-L1-overexpressing porcine vascular endothelial cells induce functionally suppressive human CD4+CD25hiFoxp3+ Treg cells. J Leukoc Biol. 2011 Jul;90(1):77-86. doi: 10.1189/jlb.1210691. Epub 2011 Apr 15. PubMed PMID: 21498584.

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