

**SM505F****Monoclonal Antibody to MHC Class II (monomorphic) - FITC**

<b>Alternate names:</b>	HLA Class II, Human Leukocyte antigen class II, MHC Class 2, Major histocompatibility complex class II
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	AM03095PU-N
<b>Clone:</b>	CVS20
<b>Immunogen:</b>	3132 cells <b>Remarks:</b> Spleen cells from immunised BALB/c mice were fused with cells of the X.63-Ag8.653 mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS containing 0.09% Sodium azide and 1% BSA <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow cytometry:</b> Neat-1/10, use 10µl of this working dilution to label 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with MHC Class II antigen. This antibody reacts with all equine B cells and 95% of equine T cells.
<b>Species Reactivity:</b>	<b>Tested:</b> Equine (Horse) <b>Expected from sequence similarity:</b> Bovine, Canine, Human
<b>Storage:</b>	Store 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>Product Citations:</b>	<b>Originator or purchased from resellers:</b> 1. Carrade DD, Lame MW, Kent MS, Clark KC, Walker NJ, Borjesson DL. Comparative Analysis of the Immunomodulatory Properties of Equine Adult-Derived Mesenchymal Stem Cells(). Cell Med. 2012;4(1):1-11. Epub 2012 Jan 1. PubMed PMID: 23152950.
<b>General Readings:</b>	1. Kydd, J.H. & Antczak. D.F. (1991) First International Workshop on Equine Leukocyte Antigens. Equine Immunol. 4: 5. 2. Lunn DP, Holmes MA, Antczak DF, Agerwal N, Baker J, Bendali-Ahcene S, et al. Report of the Second Equine Leukocyte Antigen Workshop, Squaw valley, California, July 1995. Vet Immunol Immunopathol. 1998 Mar 31;62(2):101-43. PubMed PMID: 9638857. 3. Weiss DJ, Evanson OA, McClenahan DJ, Abrahamsen MS, Walcheck BK. Regulation of expression of major histocompatibility antigens by bovine macrophages infected

- with *Mycobacterium avium* subsp. *paratuberculosis* or *Mycobacterium avium* subsp. *avium*. *Infect Immun*. 2001 Feb;69(2):1002-8. PubMed PMID: 11159996.
4. Out TA, Wang SZ, Rudolph K, Bice DE. Local T-cell activation after segmental allergen challenge in the lungs of allergic dogs. *Immunology*. 2002 Apr;105(4):499-508. PubMed PMID: 11985670.
5. Carrade DD, Owens SD, Galuppo LD, Vidal MA, Ferraro GL, Librach F, et al. Clinicopathologic findings following intra-articular injection of autologous and allogeneic placentally derived equine mesenchymal stem cells in horses. *Cytotherapy*. 2011 Apr;13(4):419-30. doi: 10.3109/14653249.2010.536213. Epub 2010 Nov 25. PubMed PMID: 21105841.
6. Catchpole B, Stell AJ, Dobson JM. Generation of blood-derived dendritic cells in dogs with oral malignant melanoma. *J Comp Pathol*. 2002 Feb-Apr;126(2-3):238-41. PubMed PMID: 11945016.
7. Weiss DJ, Evanson OA, Souza CD. Mucosal immune response in cattle with subclinical Johne's disease. *Vet Pathol*. 2006 Mar;43(2):127-35. PubMed PMID: 16537930.
8. Weiss DJ. Evaluation of proliferative disorders in canine bone marrow by use of flow cytometric scatter plots and monoclonal antibodies. *Vet Pathol*. 2001 Sep;38(5):512-8. PubMed PMID: 11572558.
9. Sassa Y, Inoshima Y, Ishiguro N. Bovine macrophage degradation of scrapie and BSE PrPSc. *Vet Immunol Immunopathol*. 2010 Jan 15;133(1):33-9. doi: 10.1016/j.vetimm.2009.06.018. Epub 2009 Jul 7. PubMed PMID: 19647878.

**Pictures:**

Staining of equine peripheral blood lymphocytes with MHC Class II antibody Cat.-No. SM505F.

