

SM505R**Monoclonal Antibody to MHC Class II (monomorphic) - PE**

Alternate names:	HLA Class II, Human Leukocyte antigen class II, MHC Class 2, Major histocompatibility complex class II
Quantity:	100 Tests
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	CVS20
Immunogen:	3132 cells Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the X.63-Ag8.653 mouse myeloma cell line.
Format:	State: Lyophilised purified IgG Purification: Affinity chromatography on Protein A Buffer System: PBS containing 0.09% Sodium azide, 1% BSA and 5% Sucrose Label: PE – R. Phycoerythrin Reconstitution: Restore with 1.0 ml distilled water.
Applications:	Flow cytometry: Neat, use 10µl to label 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with MHC Class II antigen. This antibody reacts with all equine B cells and 95% of equine T cells.
Species Reactivity:	Tested: Equine (Horse) Expected from sequence similarity: Bovine, Canine, Human
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
Product Citations:	Originator or purchased from resellers: 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.
General Readings:	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. SM505R.

