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AM26699AF-N Monoclonal Antibody to HLA class II DM alpha / HLA-DMA -Azide Free

| Alternate names: | DM alpha chain, DMA, HLA class II histocompatibility antigen, MHC class II antigen DMA, RING6, Really interesting new gene 6 protein |
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| Quantity: | 0.1 mg |
| Concentration: | 1.0 mg/ml |
| Background: | MHC (major histocompatibility complex) class II molecules are transmembrane glycoproteins expressed on the surface of professional antigen-presenting cells, such as macrophages, dendritic cells and B cells. Before their exposition on the cell surface, the MHC class II molecules react with endocytosed exogenous antigens, which are then presented to the T cells. The antigen-binding grove between MHC class II alpha and beta chain is open at both ends and is 15-24 amino acid residues long. |
| Uniprot ID: | <u>P28067</u> |
| NCBI: | <u>NP_006111.2</u> |
| GenelD: | 3108 |
| Host / Isotype: | Rat / IgG2b |
| Recommended Isotype Controls: | SM19A |
| Clone: | M5/114 |
| Immunogen: | Activated C57BL/6 mouse spleen cells |
| Format: | State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Purification: Protein-G Affinity Chromatography Buffer System: Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 μm filter sterilized |
| Applications: | Flow Cytometry: 2 μg/ml.Immunoprecipitation.Western blot.Immunohistochemistry on Paraffin Sections.Immunohistochemistry on Frozen Sections.Functional Application: Blocking of T cell proliferative responses.Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | The antibody reacts with murine MHC class II glycoproteins. It recognizes a shared determinant on I-Ab, I-Ad, I-Aq, and I-Ed, I-Ek alloantigens, but it does not react with I-Af, I-Ak, I-As. This antibody can inhibit I-A-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not H-2f, H-2k, H-2s haplotypes. |
| Species Reactivity: | Tested: Mouse |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

MS/20190909

| | AM26699AF-N: Monoclonal Antibody to HLA class II DM alpha / HLA-DMA - Azide Free |
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| Storage: | Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch. |
| General Readings: | Bhattacharya A, Dorf ME, Springer TA. A shared alloantigenic determinant on Ia antigens encoded by the I-A and I-E subregions: evidence for I region gene duplication. J Immunol. 1981 Dec;127(6):2488-95. PubMed PMID: 6170707. Viville S, Neefjes J, Lotteau V, Dierich A, Lemeur M, Ploegh H, et al. Mice lacking the MHC class II-associated invariant chain. Cell. 1993 Feb 26;72(4):635-48. PubMed PMID: 7679955. De Souza Leao S, Lang T, Prina E, Hellio R, Antoine JC. Intracellular Leishmania amazonensis amastigotes internalize and degrade MHC class II molecules of their host cells. J Cell Sci. 1995 Oct;108 (Pt 10):3219-31. PubMed PMID: 7593283. Kleijmeer M, Ramm G, Schuurhuis D, Griffith J, Rescigno M, Ricciardi-Castagnoli P, et al. Reorganization of multivesicular bodies regulates MHC class II antigen presentation by dendritic cells. J Cell Biol. 2001 Oct 1;155(1):53-63. PubMed PMID: 11581285. Beers C, Burich A, Kleijmeer MJ, Griffith JM, Wong P, Rudensky AY. Cathepsin S controls MHC class II-mediated antigen presentation by epithelial cells in vivo. J Immunol. 2005 Feb 1;174(3):1205-12. PubMed PMID: 15661874. Kuwano Y, Prazma CM, Yazawa N, Watanabe R, Ishiura N, Kumanogoh A, et al. CD83 influences cell-surface MHC class II expression on B cells and other antigen- |
| | presenting cells. Int Immunol. 2007 Aug;19(8):977-92. PubMed PMID: 17804692. 7. Zang W, Kalache S, Lin M, Schroppel B, Murphy B. MHC Class II-mediated apoptosis by a nonpolymorphic MHC Class II peptide proceeds by activation of protein kinase C. J Am Soc Nephrol. 2005 Dec;16(12):3661-8. Epub 2005 Oct 12. PubMed PMID: 16221866. 8. Clausen BE, Waldburger JM, Schwenk F, Barras E, Mach B, Rajewsky K, et al. Residual MHC class II expression on mature dendritic cells and activated B cells in |
| | RFX5-deficient mice. Immunity. 1998 Feb;8(2):143-55. PubMed PMID: 9491996. |

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