

## Anti-HLA-A2 [MBW1] Standard Size Ab03371-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This reformatted human antibody was made using the variable domain sequences of the original Human IgM format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Lambda

**Clone Number:** MBW1

**Alternative Name(s) of Target:** HLA-A; Human leukocyte antigen A; HLA class I histocompatibility antigen; A-2 alpha chain; MHC class I antigen A-2 HLA-A; HLA class I histocompatibility antigen A-28 alpha chain; HLA class I histocompatibility antigen; A-28 alpha chain; MHC class I antigen A-28

**UniProt Accession Number of Target Protein:** P04439

**Published Application(s):** functional assay, ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated from the peripheral blood lymphocytes obtained from a multiparous volunteer 1 week postpartum were transformed in vitro by Epstein-Barr virus and electro fused with the heterohybridoma fusion partner, K6H6/B5. The screening for specific clone was done using micro lymphocytotoxicity assay.

**Specificity:** The antibody specifically binds human HLA-A2 and does not cross react with A28, Aw68, or Aw69 antigens.

**Application Notes:** This antibody specifically reacts with human HLA-A2 and does not cross react with A28, Aw68, or Aw69 antigens (PMID: 2160447). The reactivity of this antibody to human HLA-A2 was determined using ELISA. The reactivity of this antibody towards HLA-A2 was abolished by substitutions in the a1 domain, specifically the substitutions of alanine for glutamic acid at position 58 (E58A) and either a valine or arginine substitution for glycine at position 62 (G62V or G62R). The reactivity of this antibody to surface bound HLA-A\*0201 was determined using complement-dependent cytotoxicity (CDC) assay (PMID: 9862700).

**Antibody First Published in:** Wallace et al. Generation of a human hybridoma producing a pure anti-HLA-A2 monoclonal antibody. Hum Immunol. 1990 May;28(1):65-9. [PMID:2160447](#)

**Note on publication:** Describes the generation and characterization of this antibody.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.