

## Anti-HLA-A2 [MBW1] Standard Size Ab03371-3.0

This chimeric mouse 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:** Mouse IgG2b, 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.