

## Anti-Glycophorin A M antigen [M2A1] Standard Size Ab00789-10.3

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

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** M2A1

**Alternative Name(s) of Target:** CD235a; M sialoglycoprotein; PAS-2

**UniProt Accession Number of Target Protein:** P02724

**Published Application(s):** immunoblot, inhibition assay, ELISA

**Published Species Reactivity:** Human

**Immunogen:** M2A1 was prepared by immunizing BALB/c mice with human red blood cells of the M phenotype, and was screened by testing for anti-M activity.

**Specificity:** M2A1 binds specifically to the M antigen on human erythrocytes, and shows no reactivity to N antigen. The epitope for this antibody includes the amino-terminal serine residue and sialic acid residues of glycophorin A. The reactivity of M2A1 for M antigen is pH- and salt-dependent (optimum ~ pH8-9). Blood group antigen M is located on the major sialoglycoprotein (glycophorin A) of red blood cells.

**Application Notes:** M2A1 can bind to M antigen of glycophorin A and can be used in ELISAs, immunoblots and modified M glycoprotein can be used for inhibition tests.

**Antibody First Published in:** Jaskiewicz et al. Characterization of the epitope recognized by a monoclonal antibody highly specific for blood group M antigen. Transfusion. 1990 Mar-Apr;30(3):230-5. [PMID:1690467](#)

**Note on publication:** Describes the generation and characterization of M2A1 antibody against M antigen.

### 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.