

Anti-Glycophorin A M antigen [M2A1] Standard Size Ab00789-10.6

This is a Fab fragment with a his-tag.

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 Fab fragment, His-Tagged, 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: 100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.