

Anti-M protein, serotype 5 [36.2.2] Bulk Size Ab03916-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 36.2.2

Alternative Name(s) of Target: Streptococcal M-protein; Myosin; Actin; Keratin; Tropomyosin; Troponin; Laminin; Ganglioside; Glycophorin M,N

UniProt Accession Number of Target Protein: P02977

Published Application(s): HA, PRNT, WB, ELISA, IF

Published Species Reactivity: Cocksackievirus, Poliovirus type 1, Rat, Streptococcus pyogenes, Human

Immunogen: The original antibody was generated by immunizing BALB/c BYJ mice with streptococcal M type 5 membranes followed by a second, boosting dose of M type 5 streptococcal membranes.

Specificity: This antibody reacts with α -helical molecules. Specifically, it binds streptococcal M-protein (type 5), human myosin, actin, keratin, tropomyosin, troponin, laminin, ganglioside, glycophorin M,N

Application Notes: This antibody reacts with human heart cells and whole streptococci (group A, M type 5), as shown in an ELISA, and human heart cells, human sarcolemma, and group A streptococcal membranes, as shown in a WB (Cunningham et al., 1984; PMID: 6384047). This antibody reacts with the heavy chain of skeletal muscle myosin. Specifically, it reacts with light meromyosin fragments, as shown in WB and competitive inhibition assays (Cunningham et al., 1986; PMID: 3510006). This antibody labels the cytoplasm of epidermal cells and epidermal appendages in normal and psoriatic skin, as shown by immunofluorescent staining (Swerlick et al., 1986; PMID: 3525693). This antibody binds CV (B3), as shown in an ELISA; neutralizes PV-1 and CV (B3), as shown in a plaque-reduction neutralization assay; and is cytotoxic to rat heart cells and fibroblasts, as shown in a cytotoxicity assay (Cunningham et al., 1992; PMID: 1311095). This antibody reacts with retinal S-antigen (S-Ag), as shown in an ELISA (Lerner et al., 1995; PMID: 8722579). This antibody was found to be cytotoxic for rat heart cells (Antone et al., 1997 ;PMID: 9548482). This antibody binds myosin at a high relative avidity, as determined in a competitive ELISA. (Mertens et al., 2000; PMID: 11282394).

Antibody First Published in: Cunningham et al. Murine monoclonal antibodies reactive with human heart and group A streptococcal membrane antigens Infect Immun. 1984 Oct;46(1):34-41. doi: 10.1128/jai.46.1.34-41.1984 [PMID:6384047](#)

Note on publication: The original publication characterizes the antibody's reactivity with human heart and streptococcal antigens.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.