



M13 phage coat protein g8p (RL-ph1)

CATALOG NUMBER: MUB0603P
CLONE: RL-ph1
SPECIES / ISOTYPE: mouse IgG2b
PRODUCT FORM: purified monoclonal antibody

BACKGROUND

The display of repertoires of antibody fragments on the surface of filamentous phage offers a new way to produce immunoreagents with defined specificities.

Phage derived antibody fragments offer a number of advantages over mouse monoclonal antibodies, such as better clearance from the blood, the possibility to select from human combinatorial libraries and the relative ease by which such fragments can be manipulated. The phage display technique thus facilitates the selection of antibody fragments of therapeutic value or research interest. Antibodies to M13 filamentous phage coat proteins are instrumental in the selection and detection of phages expressing specific antibody fragments or peptide sequences at their surface.

SOURCE

RL-ph1 is a mouse monoclonal IgG2b, κ antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with isolated M13 phage coat proteins.

PRODUCT

Each vial contains 100 μ l 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

SPECIFICITY

RL-ph1 reacts with the major M13 filamentous phage coat protein g8p with a molecular weight of 5 kDa.

RL-ph1 is particularly useful for immunoblotting of separated phage proteins, and is also suitable for immunocytochemistry, flow cytometry, affinity chromatography and ELISA. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

STORAGE

Store at 4°C, or in small aliquots at –20°C.

REFERENCES

1. Meulemans, E. V., Nieland, L. J., Debie, W. H., Ramaekers, F. C., and van Eys, G. J. (1995). Phage displayed antibodies specific for a cytoskeletal antigen. Selection by competitive elution with a monoclonal antibody, Hum Antibodies Hybridomas 6, 113-8.

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WARNING and CAUTION

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water.

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