EXBIO Antibodies

PRODUCT DATA SHEET

PB-458-C025

Mouse IgG2a Isotype Control Pacific Blue™ conjugated (0.025 mg)

Clone: PPV-04

Isotype: Mouse IgG2a

Specificity: This mouse IgG2a monoclonal antibody (clone PPV-04) reacts with undefined epitope on a plant pathogen.

Regulatory Status: RUO

Negative Species: Human, Porcine, Mouse, Rat, Other species Not tested (expected negative)

Preparation: The purified antibody is conjugated with Pacific Blue™ under optimum conditions. The conjugate is purified by size-exclusion chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

Usage: The reagent is intended as isotype control for flow cytometry analysis to establish the amount of non-specific antibody binding. For your particular experiment, use the same concentration of this isotype control antibody as the recommended working concentration of the antigen-specific antibody. Also, when working with prediluted antibodies, dilute the isotype control to the same concentration as is the concentration of the antigen-specific antibody in the prediluted antibody solution you are using. If under particular experimental conditions the background signal of the isotype control is too high (usually when working concentrations of used antibodies are above 10 µg per ml of incubation mixture), change the conditions of your experiment to reduce the background.

Expiration: See vial label

Lot Number: See vial label

Background: The specificity of staining by monoclonal antibodies to target antigens should be verified by establishing the amount of non-specific antibody binding. Especially at higher concentration (more than 15 µg/ml) the antibody staining usually has consignable background. To this end a non-reactive immunoglobulin of the same isotype is included as a negative control for each specific monoclonal antibody used in a particular immunoassay. The monoclonal antibody PPV-04, generated against a plant pathogen, does not cross-react with other species, and hence all the background that could be observed when working with this antibody would be a result of general nonspecific interactions between an mouse IgG2a molecule and the respective sample under the particular conditions. This shall help the customer to set up the experimental conditions so that the nonspecific binding of any antibody is abolished.

References: Unpublished.

For laboratory research only, not for drug, diagnostic or other use.

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