



**Monoclonal Antibody to
Anti p21-Ras Oncoprotein**
(Cross-reacts with Human, Mouse and Rat)

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to
p21-Ras Oncoprotein

Antibody Formats Supplied

0.2 ml of anti p21-Ras, Concentrate

PRODUCT# IMI28052E (Concentrate)

SOURCE: Purified cultured supernatant

IMMUNOGEN: Purified recombinant p21

IMMUNOGLOBULIN ISOTYPE: IgG2a

REACTIVITY

Ras proteins are signal transducing proteins that function as a branchpoint in signal transduction, they are involved in a variety of cellular signaling functions such as cellular growth, cellular differentiation and apoptosis. Proteins of 21kDa (p21) are encoded by the three identified human Ras genes, H Ras, K Ras and N Ras. This antibody reacts with H, K and N Ras from human, mouse and rat. This antibody can be used for immunohistochemistry, frozen and paraffin sections, for Immunofluorescence, flow cytometry, ELISA, immunoblotting and immunoprecipitation. It is suitable for use on routinely fixed paraffin embedded or frozen cell smears and cytospin preparations.

POSITIVE CONTROL TISSUE: Reactive lymph node, breast

Antibody FORMAT, DILUTION and INCUBATION

Monoclonal mouse anti p21-Ras antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

0.2 ml of concentrate: The suggested starting dilution for 30-minute incubation is 1:50 for paraffin sections and 1:100 for frozen sections. The ultimate working dilution and incubation time must be determined by the end user for the incubation time and the secondary reagents employed.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q detection system. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed

SPECIAL USAGE GUIDANCE

Pre-treatment with pepsin (0.05% in water for 30 minutes) may be required when staining paraffin sections. However, the use of INNOVEX STAT staining system and INNOVEX Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) eliminates the pre-treatment step with pepsin. The use of INNOVEX Signal-Enhancing Wash Buffers produce great staining even for weak or overfixed tissues in a single try and without repetitive procedures. They also further allow the user to cut primary incubation time and/or increase antibody dilution.

CONTINUED OVER



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APPLICATIONS

This antibody is intended for use in immunolocalization of p21-Ras proteins in human, mouse and rat tissue by a variety of immunoassays such as Immunochemistry, immunofluorescence, ELISA, Immunoblotting, dot blotting, flow cytometry and for use in functional assays in adhesion research. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of p21-Ras proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human, mouse and rat has been substantiated; other species reactivity may be characterized by the end user.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

FOR IN VITRO RESEARCH USE ONLY