



Polyclonal Antibody to Human CYCLIN B1 Protein

Technical Data Sheet

Reagent Category

Polyclonal primary antibody to
CYCLIN B1

Antibody Formats Supplied

□ 0.2 ml of anti Cyclin B1, Concentrate

PRODUCT # IMI20252E (Concentrate)

SOURCE: Rabbit

IMMUNOGEN: Synthetic peptide analogous to the Cyclin B1 molecule

REACTIVITY

Cyclin B1 acts as a regulatory proteins that activate cyclin dependent kinase at different cell cycle stages, mainly the transition of G2 to M phase. Cyclin B1 is detected earlier than cyclin B2 and proliferating cells corresponding the G2 to M phase transition may stain positive for B1 cyclin. Increased level of cyclin B1 is indicative of increased cell proliferation and cyclins have been used to study tumor proliferation and progression pathways. This antibody is suitable for use on routinely fixed paraffin embedded sections (see special usage guidance of this date sheet) and for frozen sections and cytospin cell preparations.

STAINING PATTERN: Cytoplasmic

POSITIVE CONTROL TISSUE: Breast carcinoma/ tonsil

Antibody FORMATS, DILUTIONS and INCUBATIONS

This affinity purified polyclonal rabbit anti Cyclin B1 antibody is affinity purified and it is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

□ **0.2 ml of concentrated.** Dilute 1:20 and incubate at 1 hour. The ultimate working titer should be determined by the end user.

The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection system and INNOVEX Enhancing Wash Buffer. For less sensitive detection systems the incubation time may have to be increased .

SPECIAL USAGE GUIDANCE

No pre-treatment is necessary when employing Innovex STAT-Q detection system and signal Enhancing wash buffer in place of PBS or Tris buffer for rinsing in between incubation steps (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase).

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The use of Innovex Enhancing wash buffer greatly enhances staining signals even on antigenically weak tissues and for overfixed tissues, furthermore, the use of Innovex Enhancing Wash Buffer as the assay wash buffer allows the user to cut primary incubation time and/or increase antibody dilution and eliminates the need for enzyme pre-digestion. When rinsing with PBS, trypsin digestion of paraffin sections is highly recommended.

APPLICATIONS

This antibody is intended for use in immunolocalization of Cyclin B1 proteins in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunofluorescence labeling, Immunoblotting, dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of Cyclin B1 proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

APPROPRIATE NEGATIVE CONTROL SERA for staining negative control slide

Employ purified normal rabbit sera free of immunoglobulin, concentration at 1-5ug/ml in place of primary antibody when staining negative control slides for this antibody. Observe the same incubation time for negative control sera and primary antibody.

SPECIES REACTIVITY

This antibody reactivity with human 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