



## Polyclonal (Rabbit) antibody to Ubiquitin

### *Technical Data Sheet*

**Reagent Category**

Polyclonal primary antibody to Ubiquitin

**Antibody Formats Supplied**

0.2 ml of anti Ubiquitin, Concentrate

**PRODUCT# IMI31452E (Concentrate)**

**SOURCE:** Rabbit

**IMMUNOGEN:** bovine red cell Ubiquitin

**POSITIVE CONTROL TISSUE:** Alzheimer's brain

**REACTIVITY**

This antibody reacts with Ubiquitin an 8.6kDa protein. Ubiquitin plays a role in degradation of short-lived proteins by the proteasome. This ubiquitin-mediated degradation plays important roles in signal transduction cell cycle progression, endocytosis and apoptosis amongst other protein regulatory actions. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections, cell smears and cytopsins. It is compatible with formalin fixed tissues/cells and with other commonly used histological fixatives. This antibody is also suitable for use by ELISA, Immunoblotting, dot blotting and for immunofluorescence staining.

**Antibody FORMAT, DILUTION and INCUBATION**

This polyclonal rabbit anti ubiquitin antibody 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 concentrate; for 30-minute incubation, dilute 1:50 for paraffin sections. The dilution factor for frozen section staining and other applications cited above are considerably higher and must be determined by the end user. For frozen sections and for Immunoblotting dilute 1:100 or higher.**

THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection systems. 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**

No pre-treatment such as high heat antigen unmasking method is required for staining formalin fixed paraffin sections, the use of Innovex STAT-Q Staining system, product number NB314KLD and Innovex Signal-Enhancing Wash Buffers (Innovex product #NB301 for Immuno-Peroxidase staining and product number NB302 for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps is employed. The use of Innovex Signal Enhancing Wash Buffer amplifies staining signal, ...

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eliminates the need for enzyme digestion pre treatment, heat application (retrieval procedure) and shortens the incubation time for the primaries antibodies without addition of any extra steps to immunostaining procedures. In the absence of Innovex staining system mentioned above, the user may employ high heat antigen unmasking methods.

## APPLICATIONS

This antibody is intended for use in immunolocalization of Ubiquitin antigen in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunofluorescence labeling, Immunoblotting and 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 Ubiquitin antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## SPECIES REACTIVITY

This antibody reactivity with human, rat, porcine, bovine, cat, monkey has been substantiated, other species reactivity may be characterized by the end user.

## STORAGE CONDITIONS

Refrigerated at 2-8 °C through the expiration date noted on the vial label. Avoid multiple freeze-thaw cycles or exposure to frequent temperature changes that can greatly alter product stability.

## IMPORTANT NOTE:

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

**FOR IN VITRO RESEARCH USE ONLY**