



Polyclonal (rabbit) antibody to **CATHEPSIN G**

Technical Data Sheet

Reagent Category

Polyclonal primary antibody to Cathepsin G

Antibody Formats Supplied

0.2 ml of anti Cathepsin G, Concentrate

PRODUCT# IMI12852E (Concentrate)

SOURCE: Rabbit

IMMUNOGEN: Purified human cathepsin G

REACTIVITY

Cathepsin G consists of a set of three isozymes of molecular weight of 28, 29 and 31.5 kD that are involved in tumor invasion and tumor mediated tissue degradation. Cathepsin G is involved in direct degradation of normal tissue as well as activation of proteolytic enzymes leading to destruction of basement membrane such as laminin. Use of cathepsin G in evaluation and study of various tumors has shown infiltration of neutrophils in tumors. This antibody is reactive with cathepsin G of human neutrophils and is suitable for use on routinely fixed paraffin embedded and frozen sections, it is also compatible with formalin fixed tissues as well as other commonly used histological fixatives. This antibody is also applicable to a variety of immunoassays; ELISA, Western blot and others.

POSITIVE CONTROL TISSUE: Tonsil, Thymus/ specimens known to contain neutrophils

Antibody FORMAT, DILUTION and INCUBATION

0.2 ml Concentrate, for IHC paraffin section staining, suggested dilution: 1:50 for 30 minutes of incubation All concentrated antibodies must be titrated by the user for the application and the secondary reagents employed.

For Western Blot and Elisa applications, the dilution may range between 1:500-1:5000

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive staining 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 is necessary, however, the use of Innovex signal Enhancing Wash Buffer in place of PBS or Tris buffer for the rinsing steps (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) increases antibody dilution and amplifies staining signal. The use of enhancing wash buffer greatly enhances staining signals even on antigenically weak tissues or for overfixed tissues. Its use further eliminates the need for repetitive procedures.

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APPLICATIONS

This antibody is intended for use in immunolocalization of cathepsin G proteins in human or animal tissue by a variety of immunoassays such as Immunochemistry, fluorescent labeling, ELISA, 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 cathepsin G antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

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