

Anti-Pax-5
Rabbit polyclonal antibody
Reference: AP10478; AP10478C



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INTENDED USE AND PRESENTATION:

For *in vitro* diagnostic use.

AP10478, 7ml. Prediluted antibodies in a synthetic organic linear polymer buffer solution (pH 7.4), with carrier protein and preservative for stabilisation "READY TO USE"

AP10478C, 1ml. Concentrated antibodies with carrier protein and preservative for stabilisation.

SUMMARY, EXPLANATION AND LIMITATIONS:

Pax-5 (Paired Box Protein 5), also known as BSAP (B-Cell Specific Activator Protein), is a nuclear marker for Blymphocytes. The protein is detectable already in pro- and pre-B-cells as well as in mature B-cells. Its expression is down-regulated in plasma cells. Pax-5 affects the expression of certain B-cell specific markers, such as CD19 and CD20. Recent investigations have shown that detection of Pax-5 has in some cases a higher specificity and sensitivity for Bcells than detection of CD20 or CD79a. This holds true e.g. for DLBCL (diffuse B-cell large cell lymphomas). Additionally, new therapies targeting CD20 are expected to lead to increased numbers of CD20 negative B cell lymphoma and leukaemia after therapy (Clarke LE et al.). In these cases alternative markers like Pax-5 can be helpful. It was observed, that this anti-Pax-5 antibody can bind to precursor erythrocytes in bone marrow.

Immunohistochemistry (IHC) is a complex technique in which immunological and histological detection methods are combined. In general, the manipulation and processing of tissues before immunostaining, especially different types of tissue fixation and embedding, as well as the nature of the tissues themselves may cause inconsistent results (Nadji and Morales, 1983). Endogenous pseudoperoxidase and peroxidase activity or endogenous biotin and alkaline phosphatase activity can cause non-specific staining results depending on the detection system used. Tissues that contain Hepatitis B surface antigen (HBsAg) can produce false positives when using HRP detection systems (Omata et al, 1980). Insufficient contrast staining and/or improper mounting of the sample may influence the interpretation of results.

Isotype: IgG

Immunogen: Synthetic peptide according the C-terminus of the human Pax-5 proteins.

Staining pattern: Nuclear.

The interpretation of the stain results is the full responsibility of the user. Any experimental result must be confirmed by a medically established diagnostic product or procedure.

Positive control: Tissue sample from tonsil.

External negative control: Tissue sample homologous to the test sample incubated with an antibody isotype not specific for Pax-5.

APPLICATIONS:

This antibody is designed for the specific localization of human Pax-5 using IHC techniques in formalin-fixed, paraffin-

embedded tissue sections.

This antibody is useful in identifying pre-B cells, pro and mature, as well as the classification of lymphomas. As part of a panel of antibodies, is also useful to identify classic Hodgkin lymphoma versus anaplastic large cell lymphoma.

PRODUCT COMPOSITION:

Rabbit immunoglobulin IgG, polyclonal, obtained from culture supernatant. The preparation contains saline buffer, stabilising and carriers proteins, and sodium azide as a preservative.

METHODS AND PROCEDURE:

Principles of the procedure: The demonstrations of antigens by IHC is a sequential procedure with several steps involving first the application of a specific antibody for the antigen of interest (primary antibody), then a secondary antibody which joins to the first, an enzyme complex, and the addition of a chromogenic substrate. The sample is washed between each step. Enzymatic activation of the chromogenic substrate creates a visible product where the antigen is located. The results are interpreted using a light microscope. The primary antibody can be used both in manual IHC and with automated immunostainers.

Specimen: Paraffin-embedded tissue samples should be used. The antibody is also useful for immunostaining frozen tissue samples. Western blot techniques are not recommended.

Staining procedure:

Antigen retrieval	HIER Citrate Buffer pH 6.5
Working dilution (only for concentrates)	1:10 – 1:50
Incubation	30 min; RT
Control Tissue	Tonsil

Amplification and development of the immunostaining: Follow standard procedure and the recommendations given by the manufacturer for the materials used. In the case of using automated immunostainers, use the specified buffers and materials for each instrument.

See our web site at www.gennova-europe.com for detailed protocols ancillary reagents and support products.

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for IHC procedures are not provided with this antibody. This includes adhesive slides and cover slips, positive and negative control tissues, Xylene or adequate substitute, ethanol, distilled H₂O, heat pretreatment equipment (pressure cooker, steamer, microwave), pipettes, Coplin jars, glass jars, moist chamber, histological baths, negative control reagents, counter-staining solution, mounting materials, and microscope.

Buffered solutions for antigen retrieval, enzyme treatments, highly sensitive detection systems, and other auxiliary reagents are available from Gennova Scientific.



Catalog number



Batch code



In Vitro diagnostic medical device



Temperature limitation



Expiration date



Manufacturer



See instruction for use



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STORAGE AND STABILITY:

Store at 2-8 °C until the expiration date printed on product label. Do not use after the expiration date. If fresh solutions are required, these must be prepared immediately prior to use, and will be stable for at least one day at room temperature (20-25°C). Unused portion of antibody preparation should be discarded after one day. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user. The validity period of the ready to use products when opened, is the same as the expiration date indicated on the label of intact product.

Gennova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided. Under no circumstances is Gennova Scientific obliged to cover damages caused by use of this reagent.

TROUBLESHOOTING:

If unusual staining is observed or any other deviations from the expected results, please read these instructions carefully, along with the instructions from the detection system. If this does not solve the problem, please contact Gennova Scientific's technical support department or your local distributor.

PRECAUTIONS:

Use only by qualified personnel.

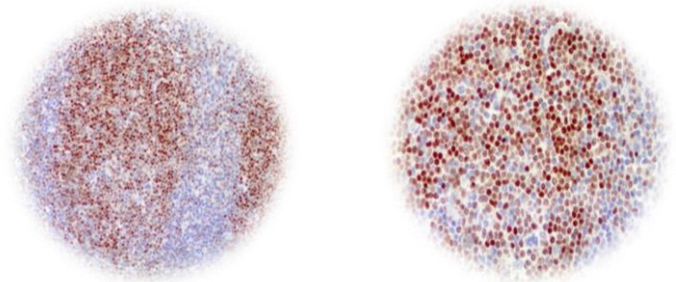
Use proper protective equipment in order to avoid contact with reagents and samples in the eyes, skin, and mucosal tissues. In case of contact with sensitive areas, immediately flush the affected area with water. Avoid microbial contamination of the reagent, as this may produce nonspecific staining results. This antibody contains sodium azide (NaN₃), used as a stabilising agent, which is not considered to be a hazardous material in the concentration used. Concentration of sodium azide in drainage pipes made of lead or copper can cause the formation of highly explosive metallic azides. In order to avoid this, sodium azide must be disposed of along with a large volume of running water. Material safety data sheet (MSDS) for pure sodium azide is available upon request.

PERFORMANCE CHARACTERISTICS:

Gennova Scientific has performed studies to evaluate the functioning of these antibodies for use with standard detection systems, concluding that the product is both specific and sensitive for the antigen of interest.

BIBLIOGRAPHY:

Torlakovic E et al. Am J Surg Pathol 26:1343-1350, 2002
Tiacci E et al. Cancer Res 64:7399-7404, 2004
Clarke LE et al. J Cutan Pathol 30:459-462, 2003
Nadji M, Morales AR. Immunoperoxidase, part 1: the techniques and its pitfall. Lab Med 1983; 14:767-770.
Omata M, Liew CT, Ashcavai M, Peters RI. Nonimmunologic binding of horseradish peroxidase to hepatitis B surface antigen. A possible source of error in immunohistochemistry. Am J Clin Pathol. May, 1980;73(5):626-632.



10 ×

20 ×

IHC of Pax-5 (Polyclonal) on FFPE tonsil tissue.

Citrate pH 6.5; DAB; Hematoxylin

F01IT04_V3R0212_AP10478_English



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