

PN IM1068 – 6 mL – Liquid – Ready-to-use – Clone HRS4

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

Reacts with a glycoprotein of 105 – 120kDa (Ki-1 antigen) (1)

Nomral cells : HRS4 monoclonal antibody reacts with scattered large lymphoid cells (immunoblasts) at the rim of germinal centers and in interfollicular areas in most lymphoid tissues. Occasionally, plasma cells may be positive for HRS4. It does not label macrophages or any other cell type. Occasional reactivity can be found on immature erythroblasts and on megacaryocytes (cytoplasmic staining) (2,3).

Tumor cells : Studies have shown that CD30 antibody reacts strongly with Reed-Sternberg cells in Hodgkin's disease, and with anaplastic large cell (ALC) lymphomas of T, B, or null-cell types, most of which were thought to be "malignant histiocytosis". Since ALC lymphomas express the Ki-1 antigen, they are frequently referred to as "Ki-1 lymphomas". Occasional large cells, in other non-Hodgkin's lymphomas may be positive (for ex., mycosis, fungoides, pleomorphic T-cell lymphomas and Lennert's lymphoma). Embryonal carcinomas are usually positive for CD30 antibody (2,4).

Staining pattern : membrane : often dot-like labeling can be seen in the Golgi region.

REAGENT

IOPath[®] Monoclonal Antibody
PN IM1068 – 6 mL – Liquid – Ready-to-use

Clone	HRS4
Isotype	IgG1, Mouse
Immunogen	Cell line, L 540, derived from Hodgkin's disease.
Hybridoma Source	N/A
Purification	Ascites fluid Ion exchange or affinity chromatography

REAGENT CONTENTS

This antibody is provided 50 mM Tris-HCl, 150 mM NaCl, pH 7.2 with 1 mg/mL bovine serum albumin and 0.1 % sodium azide. The buffer contains a green dye.

in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Immunohisto and cytochemical staining of CD30 in Reed-Sternberg cells and Hodgkin's cells, anaplastic large cell lymphoma (Ki-1 lymphomas) by immunomorphologic criteria and Ki-1 lymphomas.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

The pre-diluted form should be used without dilution.

Trypsin treatment of sections prior to heating may enhance staining intensity

SELECTED RESEARCH REFERENCES

1. Knapp, W., Dorken, B., Gilks, W.R., Pieber, E.P., Schmidt, R.E., Stein, H., Von Dern Borne, A.E.G.K. Leucocyte typing IV. White cell differentiation antigens. Oxford University Press, 1989.
2. Chuang, K.L., Arber, D.A., Weiss, L.K., (1993) "CD30". Applied Immunohistochemistry, 1:244-255.
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4. Pallesen, G., (1990) "The diagnostic significance of the CD30 (Ki-1) antigen", Histopathology, 16, 409-413.
5. Curran, R.C., and Gregory, J., (1977) "The unmaking of antigens in paraffin sections of tissue by trypsin", Experientia, 33,:1400.
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