PowerVision™ Poly-HRP IHC Reagents
(Biotin-free, anti-Rabbit Primary Antibodies)

Cat. No.	Alternative Cat. No.	For No. of Slides	Poly-HRP anti-Rabbit IgG
PV6121	DPVR-1000HRP	10,000	Poly-HRP anti-Rabbit IgG (1000 mL, RTU)

I. INTENDED USE

For Research Use Only. Not for use in diagnostic procedures.
PowerVision Poly-HRP IHC IHC Reagents are intended for the chromogenic detection of targeted antigens that have been reacted to a user-supplied primary antibody.

II. INTRODUCTION

PowerVision and PowerVision+ IHC Detection Systems utilize a novel poly-labeling technology, wherein secondary antibodies are directly polymerized with HRP or AP into compact polymers bearing a high ratio of enzymes to antibodies. These polymers demonstrated drastically improved detection sensitivity, efficiency and reliability compared to conventional secondary antibody conjugates. Direct polymerization also avoids an endogenous biotin reaction.

III. REAGENTS AND MATERIALS SUPPLIED

Poly-HRP anti-Rabbit IgG
Ready-to-use, Poly-HRP labeled anti-Rabbit IgG polymer

IV. HANDLING, STORAGE AND SHELF LIFE

Storage Conditions: All reagents are to be stored at 2-8°C. Void after expiration date as specified on reagent label.
Precautions: Specimens before and after fixation, and all materials exposed to them, should be handled as if capable of transmitting infection and disposed of with proper precautions. The user is advised to consult the MSDS for further information**.**

V. REAGENTS AND MATERIALS NEEDED BUT NOT SUPPLIED

Universal IHC Blocking/Diluent	**(for all detection systems).**
Substrates/Chromogens	**(for all detection systems).**
Primary antibodies	**(for all detection systems).**

VI. WARNINGS AND PRECAUTIONS

Poly-HRP anti-Rabbit IgG Contains 0.01% 2-methylisothiazol-3(2*H*)-one. GHS07: Exclamation mark. Signal words: Warning.	H317: May cause an allergic skin reaction.	P261: Avoid breathing mist. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/ face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to hazardous or special waste collection point.

Please note: This reagent contains the biocidal product ProClin™ 950 at 0.1%. The active substance present in ProClin™ 950 is 2-methylisothiazol-3(2*H*)-one. The ProClin™ 950 biocide is present in this reagent to prevent contamination with microbial organisms.

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PV005_L
03 March 2020

STAINING PROCEDURE

Each staining run should include both positive and negative tissue control slides to confirm:

1. That the staining system is working properly.
2. That positive and negative staining is specific.
3. That the correct procedure has been followed.

The combination of antigen retrieval protocol, primary antibody dilution, for use with a detection system should be determined by the user on a series of known positive and negative controls.
The tissue sections should not be allowed to dry out at any point during the rehydration and staining procedures. All procedures are performed at room temperature (18-26 °C).

1. Block endogenous peroxidase with 3% hydrogen peroxide in deionised water, for 10 min. Rinse well with wash buffer.
2. Block with Universal IHC Blocking/Diluent for 10 min. Blot gently, no need to wash.
   Note: This step can be omitted if primary antibodies are diluted in the Universal IHC Blocking/Diluent (PV6123).
3. Apply primary antibodies for 30-60 min. Rinse well with buffer and soak in buffer for 5 min, twice.
4. Apply Poly-HRP anti-Mouse IgG and/or anti-Rabbit IgG and incubate for 30 min. Rinse well with buffer and
5. wash in buffer for 5 min, twice.
6. Apply DAB and incubate for 2-5 min. Rinse well with deionized or tap water. Instruction: For DAB: mix one drop (33µl) DAB Substrate Solution & one drop (33µl) DAB Chromogen Solution with 0.93 mL deionized water.
7. Counterstain and Mount: Proceed with appropriate counterstaining and mounting protocol.

VII. LIMITATIONS

Correct treatment of tissues prior to fixation and embedding is important for obtaining optimal results. Inconsistent results may be due to variation in fixation, embedding, pre-treatment and primary antibody reactivities, as well as from inherent variations in tissue. Leica Biosystems warrants that the materials sold meet our performance specifications until the expiration, if stored as recommended. No other warranties or guarantees, expressed or implied, are provided, including warranties for merchantability or fitness for a particular purpose.

VIII. GENERAL REFERENCE

1. S.R. Shi, J. Guo, R. Cote, L. Young, D. Hawes, Y. Shi, S. Thu and C. Taylor, “Sensitivity and Detection Efficiency of a Novel Biotin-free IHC Detection System: PowerVision”, Applied Immunohistochemistry & Molecular Morphology, 7:201-208, 1999
2. K. Petrosyan, R. Tamayo, D. Joseph, “Sensitivity of a Novel Biotin-free Detection Reagent (PowerVision+) for IHC” J. Histotechnology, 25:247-250, 2002
3. G. Bricca, et al., “Immunostaining Melanoma Frozen Sections: The 1-Hour Protocol” Dermatologic. Surgery, 30:403-408, 2004

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