



Polink-2 Plus AP Rabbit Detection System for Immunohistochemistry

(2-step Polymer-AP detection system, biotin-free,)

Polymer Detection System with Super Sensitivity and Specificity

Storage: 2-8°C	Catalog No.	D70-110	110 ml (bulk, w/o chromogen)
		D70-18	18 ml (w/o chromogen)
	Ī	D70-6	6 ml (w/o chromogen)

Intended Use:

Polink-2 Plus AP Rabbit Detection Kit is the 3rd generation of polymer detection system. It uses rabbit antibody enhancer to help amplify the polymer-enzyme conjugate reaction to achieve super sensitivity and specificity in immunohistochemistry staining. It produces consistent immunostaining outcomes on archival tissues and on difficult-to-work antibodies. User may need to further dilute primary antibody due to super sensitivity of Polink-2 Plus detection system. It is a biotin-free system, therefore it overcomes the non-specific staining caused by streptavidin/biotin system due to endogenous biotin. Most commonly used specimens for this system are: frozen tissue, paraffin-embedded tissue, freshly prepared lymphocytes and fixed culture cells. It can be used for manual stain or autostainer. Staining conditions need to be optimized by user.

Polink-2 Plus AP Detection System offers a wide choice for primary antibodies, including broad spectrum (for mouse and rabbit primary antibodies), mouse, rabbit, goat, and rat primary antibodies. Refer to **Related Product** section for details.

Kit components:

Catalog No.	Product Name	Reagent 1: Rabbit Antibody Enhancer (Ready-to-use)	Reagent 2: Polymer AP for Rabbit (Ready-to-use)
D70-110	Polink-2 Plus AP Rabbit bulk kit	110ml	110ml
D70-18	Polink-2 Plus AP Rabbit 18ml kit	18ml	18ml
D70-6	Polink-2 Plus AP Rabbit 6ml kit	6ml	6ml

Recommended Protocol:

- 1. Fixation: To ensure the quality of the staining and obtain reproducible performance, user needs to supply appropriately fixed tissue and well prepared slides.
- 2. Tissue need to be adhered to the slide tightly to avoid tissue falling off.
- 3. Paraffin embedded section must be deparaffinized with xylene and rehydrated with a graded series of ethanol before staining.
- 4. Cell smear samples should be made into as thin monolayer as possible to obtain satisfactory results.
- 5. Investigator needs to optimize dilution and incubation times for primary antibodies.
- Three control slides will aid the interpretation of the result: positive tissue control, reagent control (slides treated with Isotype control reagent), and negative control.
- 7. Staining steps: DO NOT let specimen or tissue dry from this point on.

Reagent	Staining Procedure	
1. HIER PRETREATMENT:	a. Heat Induced Epitope Retrieval (HIER) may be required for primary antibody suggested	
	by vendor. Please check the data sheet of primary antibody	
	b. Wash with PBS 2 min., 3 times.	
2. PRIMARY ANTIBODY	a. Apply 2 drops (100 µL) or enough volume of PRIMARY ANTIBODY to cover the tissue	30-60
Supplied by user	section completely. Incubate in moist chamber for 30-60 min.	
	b. Rinse with PBS for 2 min., 3 times.	
3. Rabbit Antibody Enhancer	a. Apply 2 drops (100 µL) or enough volume of RABBIT ANTIBODY ENHANCER to cover	
(Ready-to-use). Reagent 1	each section. Incubate in moist chamber for 10 min.	
	b. Rinse with PBS for 2 min., 3 times.	

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4. POLYMER-AP for RABBIT	a. Apply 2 drops (100 µL) or enough volume of POLYMER-AP for RABBIT to cover each	10
(Ready-to-use)	section. Incubate in moist chamber for 10 min.	
Reagent 2		
	b. Rinse with PBS for 2 min, 3 times.	
5. Chromogen: Supplied by user.	Recommended products:	
	a. Fast-Red kit (Cat. No. C03-60) good for 600 slides	
	b. AP-Red+ kit (Cat. No. C04-8) 40x good for 2000 slides	
	c. BCIP/NBT RTU kit (Cat. No. C05-100, C05-15)	
6. Hematoxylin:	a. Counterstain with 2 (100 ul) or more drops hematoxylin to cover tissue completely and	20-30
Supplied by user.	wait about 20 seconds .	seconds
,,	b. Rinse well with tap water for 1-2 min.	
	c. Put slides in PBS until the color turn blue (about ½ - 1 min.)	
	d. Rinse in distill water, then rinse well with tap water	
7. Mounting medium:	Follow the manufacture data sheet procedure for mounting.	Refer to insert
Supplied by user	Recommended product:	
	1. GB-Mount: Cat. No. E01-15 (15ml), for alcohol soluble substrates (AEC, AP-Red and	
	AP-blue)	
	2. Simpo-Mount: Cat.No. E03-15 (15ml), or E03-100 (100ml), universal permanent	
	mounting medium. Can be used with or without cover slip	

Protocol Notes:

- 1. The fixation, tissue slide thickness, and primary antibody dilution and incubation time effect results significantly. Investigator needs to consider all factors and determine optimal conditions when interpret the result.
- 2. Pre-antibody blocking is optional and can be omitted if primary antibodies are diluted in buffers containing 2-10% normal goat serum.

Related Products:

Product	Catalog No. Size		Product	Catalog No.	Size
			Polink-2 Plus Mouse-NR AP bulk		
Polink-2 Plus AP Broad Bulk kit	D68-110	110ml	kit (No cross react to RAT)	D65-110	110ml
			Polink-2 Plus AP Mouse-NR		
Polink-2 Plus AP Broad 18ml kit / 6ml			18ml/6ml kit (No cross react to		
kit	D68-18 / D68-6	18ml / 6ml	RAT)	D65-18 / D65-6	18ml / 6ml
Polink-2 Plus AP Mouse bulk kit	D69-110	110ml	Fast Red Kit	C03-60	12 Tab + 60ml
Polink-2 Plus AP Mouse 18ml / 6ml kit	D69-18 / D70-6	18ml / 6ml	AP-Red+ Kit (40x concentrate)	C04-8	8ml
Polink-2 Plus AP Goat bulk	D66-110	110ml	BCIP/NBT Kit	C05-100/C05-15	100ml / 15ml
Polink-2 Plus AP Goat 18ml / 6ml kit	D66-18 / D66-6	18ml / 6ml	GB-Mount (Aqueous)	E01-15	15ml
Polink-2 Plus AP Rat-NM bulk	D67-110	110ml	Simpo-Mount (Aqueous)	E03-100 /E03-15	100ml / 15ml
Polink-2 Plus AP Rat-NM 18ml / 6ml kit	D67-18 / D67-6	18ml / 6ml			

Precautious: Please wear gloves and take other necessary precautions.

Remarks: For research use or investigation only. Not for diagnostic or therapeutic use.