

PureStain Mouse-on-Mouse Kit, HRP for AEC

NB-23-00075-1 (110 ml no chromogen) NB-23-00075-2 (18 ml with AEC) NB-23-00075-3 (6 ml with AEC) NB-23-00075-4 (60 ml with DAB)





PureStain Mouse-on-Mouse Kit, HRP for AEC

NB-23-00075-1; NB-23-00075-2; NB-23-00075-3; NB-23-00075-4

Storage: 4-8ºC

INTENDED USE:

Antigen detection of primary antibodies from the same host species as the test tissue can generate high background when indirect IHC detection methods are used for the screen. This severely limits the use of mouse monoclonal antibodies on mouse tissues.

Neo Biotech Labs Inc's PureStain Mouse HRP-Polymer Detection System is designed for staining mouse antibodies on mouse tissues. The new formula allows better detection of mouse primary antibodies without increasing the background.

The PureStain Mouse HRP Polymer DAB Kit uses a special blocking buffer, antibody enhancer and polymeric HRP linked secondary antibody to increase sensitivity to detect mouse primary antibodies without increasing background. This technology provides excellent sensitivity and specificity.

It is a biotin-free system, therefore, overcomes the non-specific staining caused by streptavidin/biotin system due to endogenous biotins

Catalog Number	Content	NB-23-00075 3	NB-23-00075 2	NB-23-00075 4	NB-23-00075 1
Reagent 1	MS Blocking A(RTU)	6mL	18mL	60mL	110mL
Reagent 2	MS Blocking B(RTU)	6mL	18mL	60mL	110mL
Reagent 3	Mouse Antibody Enhancer(RTU)	6mL	18mL	60mL	110mL
Reagent 4	Polymer HRP anti-Mouse (RTU)	6mL	18mL	60mL	110mL
Reagent 5A	AEC Substrate (20x)	1mL	2 mL	4 mL	Not Included
Reagent 5B	AEC Chromogen (20x)	2mL	4 mL	8 mL	Not Included
Reagent 5C	Hydrogen Peroxide (20x)	1mL	2 mL	4 mL	Not Included

KIT COMPONENTS:



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 needs 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 as much monolayer as possible to obtain satisfactory results.
- 5. Three control slides will aid the interpretation of the result: positive tissue control, reagent control (slide treated with Isotype control reagent), and negative control.
- 6. Start staining procedures: **DO NOT** let specimen or tissue dry from this point on.
- PureStain Mouse is a time sensitive protocol; please adhere to protocol incubation times to prevent background from occurring. Increasing incubation times of reagents 3 and 4will increase background in the plasma of some mouse strains.

Reagent	Staining Procedures	Incubatio n Time (Min.)
1. Peroxidase blocking reagent:	 a. Apply 2 drops (100µL) or enough volume of Peroxidase blocking reagent (Ready-to-use 3% H2O2 solution) to cover the tissue section and incubate 	10 min.
Supplied by user.	b. Rinse the slide using distilled water.	
2. HIER Pretreatment: refer to antibody supplier's	a. Heat Induced Epitope Retrieval (HIER) may be required for primary antibody suggested by vendorb. Wash with PBS-T containing 0.05% Tween-20; 3 times for 2	
data	minutes each.	
3. Reagent 1: MS Blocking A (RTU)	 a. Add 2 drops or enough volume of Reagent 1 MS Blocking A to cover the tissue section completely and incubate 30 min. b. Wash with PBS-T containing 0.05% Tween-20; 3 times for 2 	30 min.
	minutes each	
4. Reagent 2:	a. Add 2 drops or enough volume of Reagent 2 MS Blocking B to cover the tissue section completely and incubate 5 min.	5 min.
MS Blocking B (RTU)	 b. Wash with PBS-T containing 0.05% Tween-20; 3 times for 2 minutes each. 	

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5. Primary antibody:	Note: With the PureStain Mouse Kit, the concentration of	30-60 min
	primary antibody has to be optimized by user.	
Supplied by user.	a. Apply 2 drops or enough volume of Primary antibody to cover	
	the tissue section completely. Incubate in moist chamber for	
	30-60 min.	
	b. Wash with PBS-T containing 0.05% Tween-20;3 times for 2	
(Descent 2:	minutes each	15
6. Reagent 3:	a. Add 2 drops or enough volume of Reagent 3 Mouse Antibody Enhancer to cover the tissue section completely and incubate	15 min
Mouse Antibody Enhancer	for 15 minutes, longer incubation may increase background.	
(RTU)	b. Wash with PBS-T containing 0.05% Tween-20; 3 times for 2	
(-)	minutes each	
7. Reagent 4:	a. Apply 2 drops or enough volume of Reagent 4 Polymer HRP	15 min
	Antibody to cover the tissue section completely and incubate	
Polymer HRP anti-Mouse	15 minutes, longer incubation may increase background.	
(RTU)	b. Wash with PBS-T containing 0.05% Tween-20; 3 times for 2	
	minutes each	
		10
8. Reagents 5A, 5B, 5C	a. Prepare 1mL of distilled water. Adding 1 drop AEC Substrate	10 min.
5A:	(Reagent 5A) in 1mL of distilled water. Mix well.b. Add 1 drop or 2 drops (for higher contrast and sensitivity) of	
AEC Substrate (20x)	AEC Chromogen (Reagent 5B) and 1 drop of Concentrated	
5B:	Hydrogen Peroxide (Reagent 5C) to the pre-diluted Reagent	
AEC Chromogen (20x)	5A. Mix well.	
5C:	c. Add 2 drops (100uL) of the fresh made AEC mixture on the	
Hydrogen Peroxide (20x)	slides and incubate in an enclosed chamber at room	
	temperature about 5-10 minutes and observe color	
	development.	
	d. When appropriate color is developed, rinse under tap water	
	gently for about 1-2 minutes.e. Keep away from light during operation and use the prepared	
	AEC solution within 1 hour	
9. Hematoxylin:	a. Counterstain with 2 drops or enough volume to cover tissue	
·	completely and wait about 10-20 seconds.	
Supplied by user	b. Rinse thoroughly under tap water for 1-2 minutes.	
	c. Put slides in PBS until show blue color (about 30-60 seconds)	
	d. Rinse well in distilled water.	
10. Mounting media:	Follow the manufacture data sheet procedure for mounting.	
Supplied by user	Recommended product: NeoMount AO: Cat. No. NB-23-00155-3 (18mL)	
Supplied by user	NeoMount AQ: Cat. No. NB-23-00155-3 (18mL) NeoMount Universal: Cat. No. NB-23-00157-2 (18mL)	
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PROTOCOL NOTES:

- 1. The fixation, tissue slide thickness, antigen retrieval and primary antibody dilution and incubation time effect results significantly. Investigator needs to consider all factors and determine optimal conditions when interpret the result.
- Tissue staining is dependent upon the proper handling and processing of tissues prior to staining. Improper tissue preparation may lead to false negative results or inconsistent results.
- 3. Do not mix reagents from different lot.
- 4. Do not allow the slides to dry at any time during staining

Product	Catalog No.	Size	Product	Catalog No.	Size
PureStain Mouse-on- Mouse Kit, AP with Fast Red	<u>NB-23-00073-5</u> NB-23-00073-4	<u>6 mL</u> 18 mL	PolyStain 2-Step Plus Kit, HRP, Rat-NM, with AEC	<u>NB-23-00064-3</u> NB-23-00064-2	<u>6 mL</u> 18 mL
PureStain Mouse-on- Mouse Kit, HRP with AEC	<u>NB-23-00075-3</u> NB-23-00075-2	<u>6 mL</u> 18 mL	PolyStain 2-Step Plus Kit, AP, Rat-NM, with Permanent Red	<u>NB-23-00070-2</u> NB-23-00070-3	<u>6 mL</u> 18 mL
PureStain Mouse-on- Mouse Kit, AP with Permanent Red	<u>NB-23-00073-3</u> NB-23-00073-2	<u>6 mL</u> 18 mL	PolyStain 2-Step Plus Kit, HRP, Mouse-NR, with DAB	<u>NB-23-00053-3</u> NB-23-00053-2	<u>6 mL</u> 18 mL
PureStain Mouse-on- Mouse Kit Blocking A & B solutions	<u>NB-23-00076-1</u> NB-23-00076-2	<u>110 mL</u> 18 mL	PolyStain 2-Step Plus Kit, HRP, Mouse-NR, with AEC	<u>NB-23-00065-3</u> NB-23-00065-2	<u>6 mL</u> 18 mL
PolyStain 2-Step Plus Kit, HRP, Rat-NM, with DAB	<u>NB-23-00052-3</u> NB-23-00052-2	<u>6 mL</u> 18 mL	PolyStain 2-Step Plus Kit, AP, Mouse-NR, with Permanent Red	<u>NB-23-00071-2</u> NB-23-00071-3	<u>6 mL</u> 18 mL

RELATED PRODUCTS:

PRECAUTION:

Handle all specimens as potential infectious materials, wear gloves, eye protection, and proper protection for clothes when handling all reagents.

FOR RESEARCH USE ONLY



