



Klear Mouse HRP-Polymer DAB Detection System

(For mouse primary antibody on mouse tissue, biotin free)

	Catalog No.:	D52-6	6ml	
Storage: 4-8°C		D52-18	18ml	
		D52-60D	60ml	
		D52-110	110ml	

Intended Use:

Antigen detection with primary antibody of the same species as the test tissue yields high background when indirect detection method is used. This severely limits the use of murine monoclonal antibody on mouse tissues. Golden Bridge International's Klear Mouse HRP-Polymer Detection System is designed for staining mouse antibodies on mouse tissues. The Klear Mouse HRP-Polymer Detection kit uses a special blocking buffer, polymeric HRP-linked secondary antibody as well as mouse antibody enhancer to detect mouse primary antibody that bound to the mouse tissue. This technology provides excellent sensitivity and high specificity. It is a biotin-free system, therefore, overcomes the non-specific staining caused by streptavidin/biotin system due to endogenous biotins. With Klear mouse system, the primary antibody will need to be screened at higher concentration(2-10 fold) than regular mouse detection kits.

Kit Components:

Cat. No.	Reagent 1	Reagent 2	Reagent 3	Reagent 4	Reagent 5A	Reagent 5B
	MS Blocking A	MS Blocking B	Mouse Antibody	Polymer-HRP	DAB Substrate	DAB Chromogen
	(RTU)	(RTU)	Enhancer (RTU)	conjugate (RTU)	(RTU)	Concentrate
D52-6	6ml	6 ml	6 ml	6 ml	12 ml	1.5 ml
D52-18	18ml	18ml	18ml	18ml	15mlx2	2ml
D52-60D	60ml	60ml	60ml	60ml	60ml	3ml
D52-110	110ml	110ml	110ml	110ml	NA	NA

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.
- 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.

Reagent	Staining Procedures	Incubation Time (Min.)
Peroxidase blocking reagent: Supplied by user.	 a. Apply 2 drops (100 μl) or enough volume of Peroxidase blocking reagent (Ready-to-use 3% H₂O₂ solution) to cover the tissue section and incubate 	
Todgoria. Supplied by door.	b. Rinse the slide using distilled water.	
2. HIER Pretreatment: refer to	a. Heat Induced Epitope Retrieval (HIER) may be required for primary	
antibody supplier's data	antibody suggested by vendor	
	b. Wash with PBS 2 min., 3 times.	
3. Reagent 1:	a. Add 2 drops or enough volume of Reagent 1 MS Blocking A Solution to	30 min.
MS Blocking A	cover the tissue section completely and Incubate 30 min.	
	b. Rinse with PBS for 2 min., 3 times.	
4. Reagent 2:	Add 2 drops or enough volume of Reagent 2 MS Blocking B Solution to	5 min
MS Blocking B	cover the tissue section completely and Incubate 5 min.	
	b. Rinse with PBS for 2 min., 3 times.	

5. Primary antibody:	Note: With Klear mouse system, the primary antibody will need to be screened at higher concentration (2-10 fold) than regular mouse detection kits.	30-60 min.	
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. Rinse with PBS for 2 min., 3 times.		
6. Reagent 3:	a. Add 2 drops or enough volume of Reagent 3 Mouse Antibody Enhancer	10 min	
Mouse Antibody Enhancer	to cover the tissue section completely and Incubate for 10 min		
(RTU)	b. Rinse with PBS for 2 min., 3 times.		
7. Reagent 4: Polymer-HRP conjugate			
(RTU)	to cover the tissue section completely and incubate 10 minutes.		
	b. Rinse with PBS for 2 min., 3 times.		
8. Reagents 5A, 5B	a. Add 1 drop (or 2 drops for higher contrast) of Reagent 5B DAB	5 min.	
5A DAB Substrate (RTU)	Chromogen in 1ml of Reagent 5A DAB Substrate. Mix well. Protect from		
5B DAB Chromogen Conc.	light and use within 4 hours.		
	b. Apply 2 drops (100 µl) or enough volume of pre-mixed DAB to completely		
	cover tissue and Incubate 5 minute.		
	c. Rinse with distilled water for 2 min, 3 times.		
9. Hematoxylin:	a. Counterstain with 2 drops or enough volume to cover tissue completely	1 7 1	
Supplied by user	pplied by user and wait about 10-20 seconds.		
	b. Rinse thoroughly under tap water for 1-2 min.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:		
	GB-Mount: Cat. No. E01-18 (18ml)		
	Simpo-Mount: Cat.No. E03-18 (18ml)		

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.
- 2. 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

Related Products:

Product	Catalog No.	Size
Klear Mouse AP Fast Red kit	D50-6 / D50-18	6ml / 18ml
Klear Mouse HRP with AEC Kit	D53-6 / D53-18	6ml / 18ml
Klear Mouse AP AP-Red Kit	D51-6 / D51-18	6ml / 18ml
Klear Mouse Blocking A & B	D54-100 / D54-18	100ml / 18ml
Polink-2 Plus HRP RAT-NM DAB kit for Rat antibody on Mouse Tissue	D46-6 / D46-18	6ml / 18ml
Polink-2 Plus HRP RAT-NM AEC kit for Rat antibody on Mouse Tissue	D48-6 / D48-18	6ml / 18ml
Polink-2 Plus AP RAT-NM kit for Rat antibody on Mouse Tissue	D67-18 / D67-6	6ml / 18ml
Polink-2 Plus HRP Mouse-NR DAB kit for Mouse antibody on Rat tissue	D58-6 / D58-18	6ml / 18ml
Polink-2 Plus HRP Mouse-NR AEC kit for Mouse antibody on Rat tissue	D59-6 / D59-18	6ml / 18ml
Polink-2 Plus AP Mouse-NR kit for Mouse antibody on Rat tissue	D65-18 / D65-6	6ml / 18ml

Precautious:

Handle all specimens as potential infectious materials, wear gloves and protection cloth when handling all reagents.

Remarks:

For research use only.