



Klear Human HRP-Polymer AEC Detection System

(For Detection of Human Primary Antibodies on Human Tissues, Biotin Free)

	Catalog No.:	D104-6	6mL
Storage: 4-8°C	-	D104-18	18mL □
		D104-100	100mL □

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 screening human antibody on human tissues. GBI Labs Klear Human HRP for AEC-Polymer Detection System is designed for staining human primary antibodies on human tissues without background staining. The Klear Human HRP-Polymer Detection kit provides special blocking buffers, polymeric HRP-linked secondary antibody as well as human primer in a ready to use system. This technology requires an overnight pre-incubation with primary antibody that results in 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. **Note:** This kit is recommended for cytoplasmic and membrane bound antigens, other patterns of staining have not tested.

Kit Components:

Component No.	Content	6mL Kit	18mL Kit	110mL Kit
Reagent 1	Human Primer (RTU)	6mL	18mL	110mL
Reagent 2	Quenching Buffer (5xConcentrate)	1.5mL	2.3mLx2	13mL x2
Reagent 3	Hu Blocking A (RTU)	6mL	18mL	110mL
Reagent 4	Hu Blocking B (RTU)	6mL	18mL	110mL
Reagent 5	Human HRP Polymer (RTU)	6mL	18mL	110mL
Reagent 6A	AEC Substrate (20x)	1mL	2mL	Not Included
Reagent 6B	AEC Chromogen (20x)	2mL	4mL	Not Included
Reagent 6C	Hydrogen Peroxide (20x)	1mL	2mL	Not Included

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 into a monolayer as much 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.

Reagent	Staining Procedures Day 1 Primary Human Antibody Preparation	Incubation Time
Dilute primary antibody in Reagent 1 Human Primer (RTU)	Reagent 1 (Human Primer) is at ready to use concentration. Dilute primary antibody in Human primer at user determined primary antibody concentration. Mix gently for 30sec to 1min. Recommend only diluting amount needed for experiment. Place at 4C overnight.	O/N at 4C
Reagent	Staining Procedures Day 2	Incubation Time
Prepare slides	See Recommended Protocols above	
Peroxidase blocking reagent: Supplied by user.	a. Apply 2 drops or enough volume of Peroxidase blocking reagent (Ready-to-use 3% H ₂ O ₂ solution) to cover the tissue section and incubate	

allow mix to mperature add µl ÷ 5 mcentration).
allow mix to mperature add µl ÷ 5
mperature addµl ÷ 5
mperature addµl ÷ 5
mperature addµl ÷ 5
µl ÷ 5
µl ÷ 5
15-30 min
15-30 min
oncentration).
ning after you
) to cover the
30 min.
) to cover the
5 min
ncubating 2-4
ckground.
rimary Ab) /
to cover the 30-60 min
hours, but it
ymer) to cover
10 min.
TO IIIII.
ld 1 drop of
Mix well.
WIIA WOII.
Incubate for 5-10 min.
incubate for 5-10 film.
(XX)
ompletely and
<u> </u>
) r

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	
Klear Rat HRP DAB kit	D98-6 / D98-18	6mL / 18mL	
Klear Rat HRP AEC kit	D99-6 / D99-18	6mL / 18mL	
Klear Rat AP Fast-Red	D100-6 / D100-18	6mL / 18mL	
Klear Rat AP AP-red	D101-6 / D101-18	6mL / 18mL	
Klear Rat Blocking A & B	D102-18	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:

You should handle all kit components as potentially hazardous materials please wear gloves, eye protection, appropriate lab entire in addition to lab coat when handling any or all reagents.

Remarks:

For research use only.