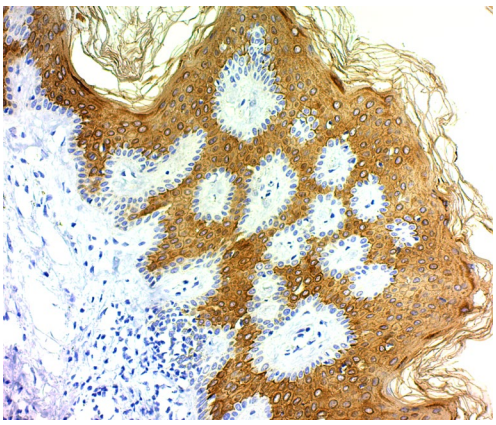
P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

UltraTek (Anti-Polyvalent) Biotinylated Antibody

Ready-To-Use

Description: The UltraTek line is our leading edge system, designed to provide optimal Immunohistochemical staining with incubation times of only 10 minutes for both the link antibody and enzyme label. UltraTek (Anti-Polyvalent) is specially formulated and optimized to be used as the biotinylated secondary antibody with both Mouse and Rabbit binding specificities.

Species of Origin:	Goat
Antigen Specificity:	Mouse, Rat, Rabbit, Guinea Pig IgG (H+L)
Preadsorbed Against:	Human
Clonality Polyclonal:	Polyclonal
Conjugate:	Biotin



Human Skin stained with an IHC protocol containing UltraTek (AntiPolyvalent) Biotinylated Antibody

Uses/Limitations: Not to be taken internally.
For In-Vitro Diagnostic use only.
Histological applications.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile

Availability/Contents:

Item #	**Volume**
ABN008	8 ml
ABN015	15 ml
ABN125	125 ml
ABN500	500 ml
ABN999	1000 ml

Also available within kits containing other IHC reagents.

Storage: Store at 2-8°C

Storage: 2° C 8° C

ScyTek Laboratories, Inc.
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Use Notes: This reagent is provided in bulk form for automated systems or manual use. If the dip method is employed, staining jar should be sealed and refrigerated between uses. Remove staining jars from the refrigerator 30 minutes prior to staining to allow reagents to come to room temperature.

Procedure:

1. Deparaffinize and rehydrate tissue section.
2. Perform antigen retrieval per standard protocol.
3. Wash in deionized water.
4. If needed, apply hydrogen peroxide for 10-15 minutes to reduce nonspecific background staining due to endogenous peroxidase.
5. Wash 4 times in buffer.
6. Apply protein block (ScyTek's "Superblock") and incubate 5-10 minutes at room temperature to block nonspecific background staining. Note: Do not exceed 10 minutes or there may be a reduction in desired stain.
7. Wash 1 time in buffer.
8. Apply primary antibody and incubate according to manufacturer's protocol.
9. Wash 4 times in buffer.
10. Incubate tissue with UltraTek (Anti-Polyvalent) Biotinylated Antibody for 10 minutes
11. Wash 4 times in buffer.
12. Incubate tissue with enzyme label according to manufacturer's protocol.
13. Rinse 4 times in buffer.
14. Apply appropriate chromogenic substrate and incubate until desired reaction is achieved.
15. Counterstain and coverslip.

Troubleshooting Guide

Overstaining:
1. Concentration of the primary antibody was too high or the incubation time was too long.
2. Temperature during incubation was too high.
3. Incubation time with link antibody or streptavidin/enzyme label was too long.

Nonspecific Background Staining:
1. Rinsing between steps was inadequate.
2. Tissue was allowed to dry with reagents on.
3. Folds in tissue trapped reagents.
4. Tissue contains endogenous enzyme.
5. Tissue contains endogenous biotin.
6. Antigen migrated in tissue.
7. Excessive tissue adhesive on slides.
8. Inadequate blocking with protein block.

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Weak Staining:
1. Primary antibody concentration was too low or incubation time was too short.
2. Reagents are past their expiration date.
3. Reagent is reaching the end of its useful life.
4. Counterstain or mounting media were incompatible and dissolved the chromogen reaction product.
5. Room temperature was excessively cool.
6. The primary antibody does not recognize an antigen that survives fixation and embedding in high enough amounts.
7. Excessive incubation with protein block (Super Block or normal serum).

No Staining:

1. Steps were inadvertently left out.
2. There is no relevant antigen in the tissue.
3. Chromogenic substrate does not match enzyme label.
4. One or more components have been inactivated.

References:

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