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

UltraTek Anti-Mouse

Item code: ABJ

Intended Use

For In-Vitro Diagnostic Use. It is intended to be used within an Immunohistochemistry (IHC) procedure on formalin-fixed paraffin-embedded (FFPE) human tissue followed by visualization by light microscopy. Any diagnostic interpretation of the results of this antibody is to be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Summary and Explanation

UltraTek Anti-Mouse is a secondary biotinylated antibody intended for use in Immunohistochemical procedures as a link between a primary antibody and streptavidin conjugated enzyme. The conjugated biotin binds to streptavidin on the subsequent enzyme allowing for subsequent chromogen detection. Streptavidin-Biotin systems may require blocking of endogenous biotin to prevent non-specific staining.

Description

Species of Origin:	Goat
Antigen Specificity:	Anti-Mouse IgG (H+L)
Pre-adsorbed Against:	Human, Bovine, Horse, Rabbit, Swine
Conjugation:	Biotin
Format:	Ready-to-Use

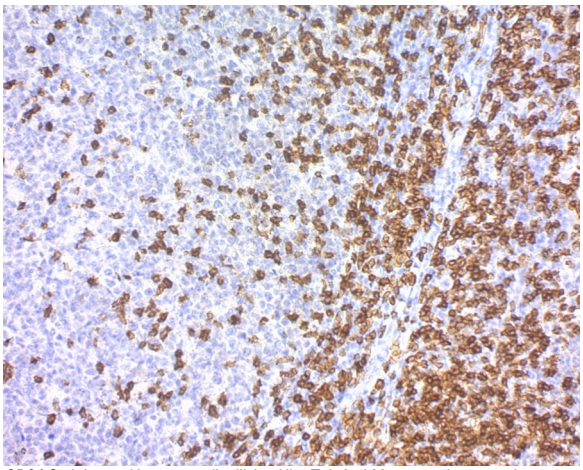
Storage

Do not Freeze. Store at 2-8°C. Return to 2-8° immediately after use. Do not use after expiration date printed on label. Verify visually that antibody has not been contaminated before use. Do not use if reagent becomes cloudy or precipitates.

Materials and Reagents Required but not Provided

1. Control tissue and reagents
2. Xylene, graded alcohols, and deionized/distilled water
3. Antibody Diluent.
4. Remaining IHC detection system reagents: Primary antibody, streptavidin conjugated enzyme, chromogen detection system.
5. Wash buffer for rinses (ScyTek Cat# TBT500)
6. HIER or Enzyme Retrieval Solution
7. Hematoxylin counterstain and bluing reagent (ScyTek Cat# HMM500 and BRT500)
8. Mounting medium and coverslips

Note: ScyTek Laboratories has a wide range of IHC reagents and ancillaries that can be found at scytek.com.



CD34 Staining on Human tonsil utilizing UltraTek Anti-Mouse as the secondary antibody link.

Suggested Procedure

1. Deparaffinize and rehydrate tissue section.
2. Perform Antigen Retrieval with enzyme and/or HIER solution.
3. Rinse in buffer.
4. Apply any required blocking solutions (biotin, protein, peroxidase).
5. Rinse in buffer.
8. Apply primary antibody and incubate according to manufacturer's protocol.
9. Rinse in buffer.
10. Apply UltraTek Anti-Mouse, and incubate for 10 minutes at room temperature.
11. Rinse in buffer.
12. Apply streptavidin conjugated enzyme label, and incubate according to manufacturer's protocol.
13. Rinse in buffer.
14. Place slide in appropriate chromogenic substrate and incubate until desired reaction is achieved.
15. Counterstain and coverslip.

Limitations

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used. This data sheet's recommendations and procedures were validated using ScyTek IHC reagents and may not be suitable for other detection systems.

Precautions

1. Contains Sodium Azide as a preservative (0.09% w/v), do not ingest. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. This product contains no hazardous

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material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.
2. Avoid contact of reagents and specimens with skin and mucous membranes.
3. Avoid microbial contamination of reagents or increased nonspecific staining may occur.
4. The user must validate any procedures and recommendations that differ from this data sheet.
5. The SDS may be found at scytek.com

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 that was not blocked.
5. Tissue contains endogenous biotin that was not blocked.
6. Antigen migrated in tissue.
7. Excessive tissue adhesive on slides.
8. Inadequate blocking with protein block.

Weak Staining:

1. Primary antibody concentration was too low or incubation time was too short.
2. Reagents are past their expiration date or reaching the end of its useful life.
3. Counterstain or mounting media were incompatible and dissolved the chromogen reaction product.
4. Room temperature was excessively cool.
5. The primary antibody does not recognize an antigen that survives fixation and embedding in high enough amounts.
6. Excessive incubation with protein block
7. Optimization of HIER must be performed.
8. Chromogen was depleted due to low volume of chromogen and high positivity.
9. Issue with fixation procedure.

No Staining:

1. Steps were inadvertently left out.
2. There is no relevant antigen in the tissue.
3. The primary antibody is not of mouse origin.
4. Chromogenic substrate does not match enzyme label.
5. One or more components have been inactivated.
6. Tissue dried at some point during procedure.

For further troubleshooting, contact Technical support at 1-800-729-8350 or scytek@scytek.com.

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