

Secretory Component; Clone SC05

Catalog Number	Format	Volume
A00127-0002	(Ready-To-Use)	2 ml
A00127-0007	(Ready-To-Use)	7 ml
A00127-0025	(Ready-To-Use)	25 ml
A00127-C	(Concentrate)	1 ml

Intended Use

For In-Vitro Diagnostic Use. This antibody is intended for the qualitative visualization of the anatomical elements listed in the Specificity section. 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.

Description

Titer/Working Dilution: Ready-to-Use: No further dilution required.

Concentrate: Suggested dilution is 1:100-200

Species: Mouse

Immunogen: Partially purified secretory component from human colostrums was used as immunogen to inject into BALB/c mice to generate this antibody.

Clone: SC05

Isotype: IgG1 / Kappa

Format: Ready-To-Use antibody has been pre-titrated and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

Concentrate antibody is provided in a phosphate buffered saline containing 1% BSA.

Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

Background: The Secretory component is a component of immunoglobulin A (IgA) which consists of a portion of the polymeric immunoglobulin receptor (plgR). Polymeric IgA binds to the plgR on the basolateral surface of epithelial cells and is taken up into the cell via transcytosis. The receptor-IgA complex passes through the cellular compartments before being secreted on the luminal surface of the epithelial cells, still attached to the receptor. Proteolysis of the receptor takes place and the dimeric IgA molecule, along with the secretory component, are free to diffuse throughout the lumen.

Secretory Component is an epithelial transport receptor for polymeric IgA and IgM. The complex regulation of plgR expression and vesicular transport by host and microbial factors is finely tuned to optimize the role of SIgA in mucosal immunity. Recent reports have defined the dynamic cross-talk between plgR, SIgA and the microbial niches that populate our mucosal surfaces. plgR plays the dual role of transporting locally produced dimeric IgA across mucosal epithelia and serving as the precursor of the secretory component moiety of SIgA. The function and regulation of plgR and SIgA may offer new insights into the prevention and treatment of diseases that originate at mucosal surfaces.

Dysregulation of plgR expression and/or function can result in severe consequences for the pathogenesis of infectious, inflammatory and neoplastic diseases. Several reports described the presence of disease-specific secretory IgA

autoantibodies in the saliva of patients exhibiting Sjögren's syndrome (SS) and other immune related disorders. Secretory component deficiency is also linked with pernicious anemia, insulin-dependent diabetes mellitus, pancreatic insufficiency, lymphopenia, intestinal candidiasis, and anti-intestinal antibody. This antibody can be used to indirectly assess SIgA expression and for identifying glandular carcinomas.

Species Reactivity: Human, Rat. Others not known.

Positive Control: Breast carcinoma, Lung, Stomach.

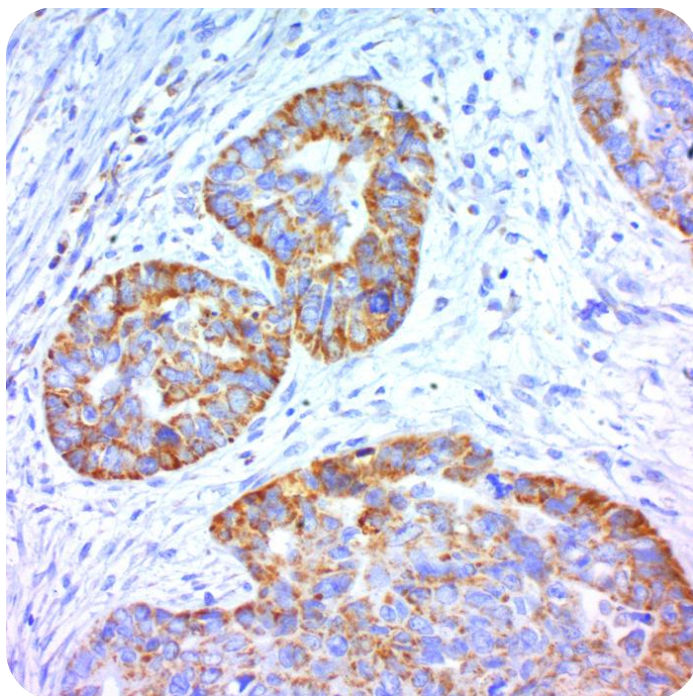
Cellular Localization: Cytoplasm and Cell Surface.

Microbiological State: Nonsterile

Materials and Reagents Required but not Provided

- Control tissue and reagents
- Xylene, graded alcohols, and deionized/distilled water
- Antibody Diluent.
- IHC detection system. Suggested: ScyTek Cat# ABZ125 "CRF Anti-Polyvalent HRP Polymer" and ScyTek Cat# ACV500 "DAB Chromogen/Substrate Kit (High Contrast)".
- Wash buffer for rinses (ScyTek Cat# TBT500)
- HIER Retrieval Solution
- Hematoxylin counterstain and bluing reagent (ScyTek Cat# HMM500 and BRT500)
- Mounting medium and coverslips

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



Human breast carcinoma stained with Ultra-Tek HRP and DAB chromogen

Storage: 2° C



8° C



ScyTek Laboratories, Inc.
205 South 600 West
Logan, UT 84321
U.S.A.



EC REP

Emergo Europe
Westervoortsedijk 60
6827 AT Arnhem, The Netherlands

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.ScyTek.com

Procedure

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed paraffin embedded tissue sections is significantly enhanced by pretreatment with Tis-EDTA HIER Solution (10x) pH 9.0 (ScyTek catalog# TES500) or Citrate Plus (10x) HIER Solution (ScyTek catalog# CPL500)

2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

3. **Visualization:** For maximum staining intensity we recommend the "CRF Anti-Polyvalent HRP Polymer" (ScyTek catalog# ABZ125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Storage and Stability

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.

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 material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.
2. Do not pipette by mouth.
3. Avoid contact of reagents and specimens with skin and mucous membranes.
4. Avoid microbial contamination of reagents or increased nonspecific staining may occur.
5. The user must validate any procedures and recommendations that differ from this data sheet.
6. The SDS may be found at scytek.com

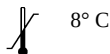
References

1. Al-Sam SZ, Davies JD. Phenotypic expression of immune secretory function in focal pregnancy-like change of the human breast. Virch Arch 1987;410:515-21.
2. Nagata N, Dairaku M, Sueishi K, Tanaka K. Sclerosing hemangioma of the lung. An epithelial tumor composed of immunohistochemically heterogenous cells. Am J Clin Pathol 1987; 88: 552-9.
3. Horsfall AC, Rose LM, Maini RN. Autoantibody synthesis in salivary glands of Sjögren's syndrome patients. J Autoimmun. 1989; 2:559-68.
4. Halse AK, Martinhusen MC, Wahren-Herlenius M, Jonsson R. Isotype distribution of anti-Ro/SS-A and anti- La/SS-B antibodies in plasma and saliva of patients with Sjögren's syndrome. Scand J Rheumatol. 2000; 29:13-19.

Warranty

No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as

Storage: 2° C



ScyTek Laboratories, Inc.
205 South 600 West
Logan, UT 84321
U.S.A.



EC REP

Emergo Europe
Westervoortsedijk 60
6827 AT Arnhem, The Netherlands