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

Secretory Component; Clone SC05
(Concentrate)

Availability/Contents:

Item #	Volume
A00127-C	1 ml

Description:

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:	This 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 (pIgR). Polymeric IgA binds to the pIgR 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 pIgR 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 pIgR, SIgA and the microbial niches that populate our mucosal surfaces. pIgR 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 pIgR and SIgA may offer new insights into the prevention and treatment of diseases that originate at mucosal surfaces.

Dysregulation of pIgR 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 tested.
Positive Control:	Breast carcinoma, Lung, Stomach.
Cellular Localization:	Cytoplasm and Cell Surface.
Titer/Working Dilution:	Immunohistochemistry: 1:100 – 1:200
Microbiological State:	This product is not sterile.

Storage: 2° C 8° C

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

EC REP EmergoEurope (31)(0) 70 345-8570
Molsnstraat 15
2513 BH Hague, The Netherlands

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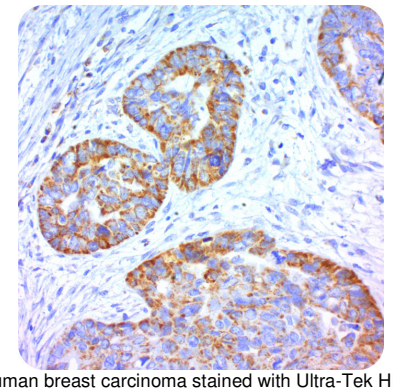
Uses/Limitations:

Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com



Human breast carcinoma stained with Ultra-Tek HRP and DAB Chromogen.

Procedure:

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is enhanced by pretreatment with Citrate Plus (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 "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
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.

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, Martinhussen 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 to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. 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.

Storage: 2° C – 8° C

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