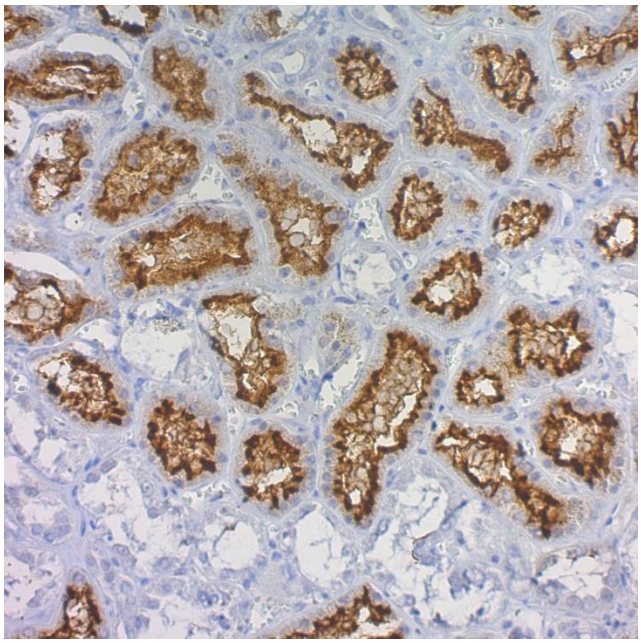
P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.ScyTek.com

CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Ready-To-Use)

Catalog Number	Volume
A00091-0002	2 ml
A00091-0007	7 ml
A00091-0025	25 ml

Description

Species: Mouse
Immunogen: Recombinant human CD10 protein fragment.
Clone: 56C6
Isotype: IgG1, Kappa.
Entrez Gene ID: 4311
Hu Chromosome Loc: 3q25.2
Synonyms: Common acute lymphocytic leukemia antigen (CALLA), Neutral Endopeptidase (NEP), Atriopeptidase, Enkephalinase (EPN), gp100, Membrane metalloendopeptidase (MME), Neprilysin, Skin fibroblast elastase (SFE).
Mol. Wt. of Antigen: 100kDa.
Format: This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.
Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).
Background: CD10 is a cell surface enzyme with neutral metalloendopeptidase activity, which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's, and follicular germinal center lymphomas, and on cells from patients with chronic myelocytic leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within adult bone marrow and germinal center B cells within lymphoid tissue. CD10 is also present on breast myoepithelial cells, bile canaliculi, fibroblasts, with especially high expression on the brush border of kidney and gut epithelial cells.
Species Reactivity: Human, Rat. Others-not known
Positive Control: Tonsil (weakly positive), Kidney, or Small Intenstine.
Cellular Localization: Cell Surface and Cytoplasmic
Titer/Working Dilution: Ready-to-Use (no further dilution required)
Microbiological State: Nonsterile.



Human kidney stained using CD10; Clone 56C6. Results were visualized using ScyTek's CRF Anti-Polyvalent HRP Polymer detection system and DAB Chromogen/Substrate Kit (High Contrast) Cat# ACV500. Magnification 200X.

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. 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.

Procedure

1. **Tissue Section Pretreatment (Required):** 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 "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: 2° C 8° C

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Materials and Reagents Required but not Provided

1. Control tissue and reagents
2. Xylene, graded alcohols, and deionized/distilled water
3. IHC detection system. Suggested: ScyTek Cat# ABZ125 "CRF Anti-Polyvalent HRP Polymer" and ScyTek Cat# ACV500 "DAB Chromogen/Substrate Kit (High Contrast)".
4. Wash buffer for rinses (ScyTek Cat# TBT500)
5. Retrieval solution (ScyTek Cat# CPL500)
6. Hematoxylin counterstain and bluing reagent (ScyTek Cat# HMM500 and BRT500)
7. Mounting medium and coverslips

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

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

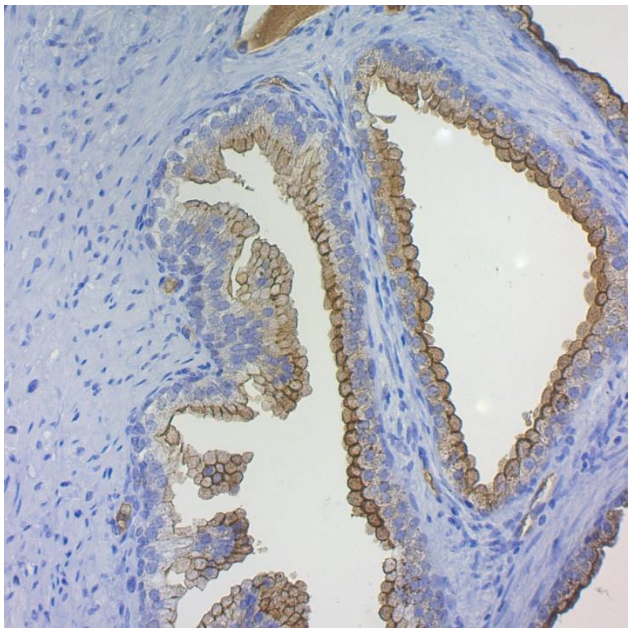
1. Contains Sodium Azide as a preservative (0.09% w/v), do not ingest. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. This product contains no hazardous material at a reportable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

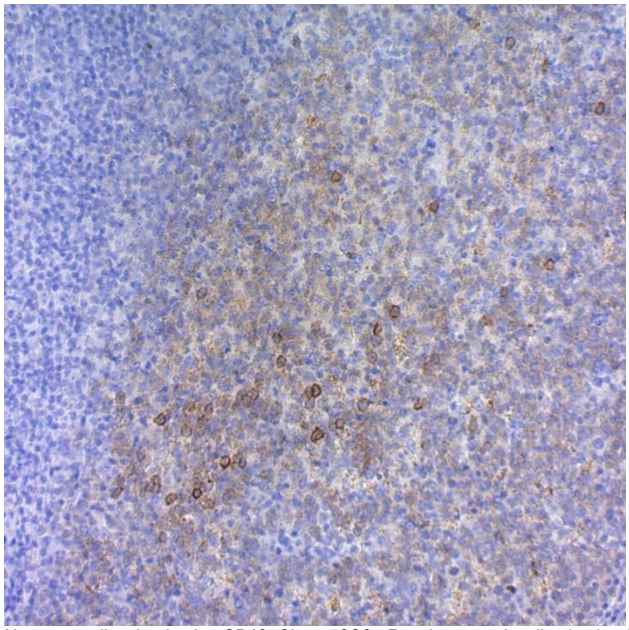
1. Cleary et al. Cell 47: 19, 1986.
2. Tsujimoto et al. Proc Natl Acad Sci (USA) 83: 5214, 1986.
3. Hockenbery et al. Nature 348: 334, 1990.
4. Pezzella et al. Am J Pathol 137: 225, 1990.

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.



Human prostate stained using CD10; Clone 56C6. Results were visualized using ScyTek's UHP500 detection system and DAB Chromogen/Substrate Kit (High Contrast) Cat# ACV500. Magnification 200X.



Human tonsil stained using CD10; Clone 56C6. Results were visualized using ScyTek's CRF Anti-Polyvalent HRP Polymer detection system and DAB Chromogen/Substrate Kit (High Contrast) Cat# ACV500. Magnification 200X.

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