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

# Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7
## (Concentrate)

**Availability/Contents:**

| **Item #** | **Volume** |
|---|---|
| RA0170-C.5 | 0.5 ml |

**Description:**

| | |
|---|---|
| Species: | Mouse |
| Immunogen: | Semi-purified cytokeratin preparation. |
| Clone: | K72.7 |
| Isotype: | IgG1 |
| Entrez Gene ID: | 3855 (Human) |
| Hu Chromosome Loc.: | 12q13.13 |
| Synonyms: | CK-7, K2C7, Keratin 55K Type II Cytoskeletal, Keratin Simple Epithelial Type 1 K7, Keratin Type II Cytoskeletal 7, Krt2-7, KRT7, Sarcolectin, SCL, Type II Mesothelial Keratin K7, Type-II Keratin Kb7 |
| Mol. Weight of Antigen: | 55kDa |
| Format: | 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. |
| Specificity: | This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs. |
| Background: | Cytokeratin 7 is a basic cytokeratin which is found in most glandular and transitional epithelia, but not in the stratified squamous epithelia. Keratin 7 is expressed in the epithelial cells of ovary, lung, and breast but not of colon, prostate, or gastrointestinal tract. This antibody is highly useful in distinguishing ovarian carcinomas (keratin 7+) from colon carcinomas (keratin 7-). |
| Species Reactivity: | Human. Others not known. |
| Positive Control: | HeLa cells. Carcinoma of ovary, lung, cervix, or breast. |
| Cellular Localization: | Cytoplasmic |
| Titer/ Working Dilution: | Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml |
| | Flow Cytometry: 0.5-1 µg/million cells |
| | Immunofluorescence: 0.5-1 µg/ml |
| | Western Blotting: 0.5-1 µg/ml |
| | Immunoprecipitation: 0.5-1 µg/500µg protein lysate |
| 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.

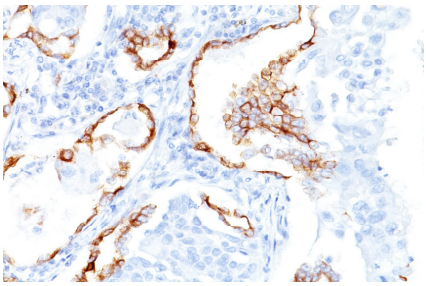
CE

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

**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.



Formalin-paraffin human lung SCC stained with Cytokeratin 7; Clone K72.7.

**Ordering Information and Current Pricing at www.scytek.com**

**Procedure:**

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly 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. Ramaekers F, van Niekerk C, Poels L, Schaafsma E, Huijsmans A, Robben H, et al. Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas. Am J Pathol 1990;136:641-55.

**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

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