# Cytokeratin 5 (KRT5) (Basal, Myoepithelial & Mesothelial Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone KRT5/3594]

| Catalog No | Format | Size |
|---|---|---|
| 3852-MSM4-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3852-MSM4-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3852-MSM4-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

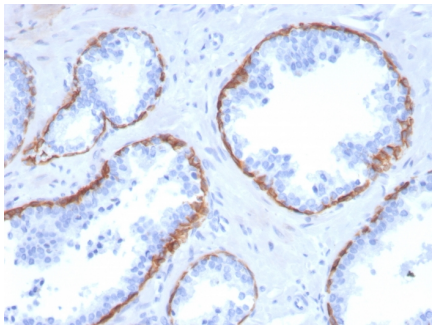
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

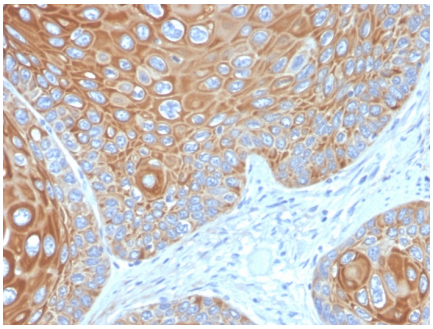
| | |
|---|---|
| **Clone** | KRT5/3594 |
| **Gene Name** | KRT5 |
| **Immunogen** | Recombinant fragment (around aa 316-590) of human Cytokeratin 5 (KRT5) protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 58kDa |
| **Species Reactivity** | Human |
| **Positive Control** | esophagus or bladder tissue (IHC)., MCF-7 or HeLa cells. Human tonsil |

**Optimal dilution for a specific application should be determined.*

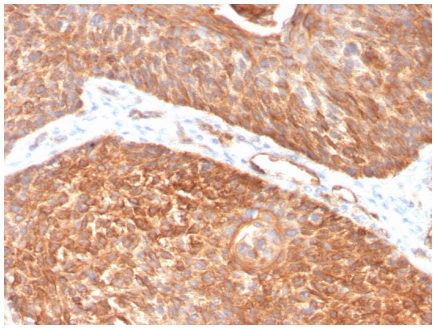
## Product Images for Cytokeratin 5 (KRT5) (Basal, Myoepithelial & Mesothelial Cell Marker) Antibody



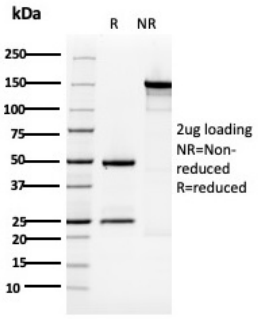
Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594).



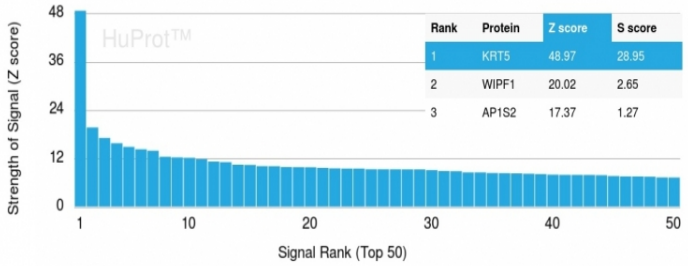
Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594).



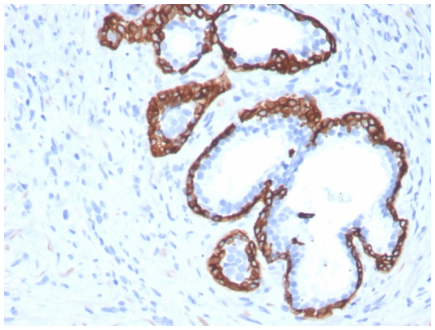
Formalin-fixed, paraffin-embedded human pancreas stained with Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594).




SDS-PAGE Analysis Purified Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594). Confirmation of Purity and Integrity of Antibody




Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with Cytokeratin 5 Mouse Monoclonal Antibody (KRT5/3594).

## Specificity & Comments

This MAb recognizes a protein of 58kDa, which is identified as Cytokeratin 5 (KRT5). This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Antibodies to KRT5 identify basal cells of squamous and glandular epithelia, myoepithelia, and mesothelium.Anti-cytokeratin 5 has been reported useful in the differential diagnosis of metastatic carcinoma in the pleura versus epithelioid mesothelioma. Almost all squamous cell carcinomas, half of transitional carcinomas, and many undifferentiated large cell carcinomas express.Anti-KRT5, along with anti-p63, affords a high sensitivity and specificity for squamous differentiation. Myoepithelial cells of the breast, glandular epithelia, and basal cells of the prostate are labeled with anti-KRT5.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Basal Cell Marker, Developmental Biology

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.